

# *Wellesley*

## COLLEGE BULLETIN

CATALOGUE NUMBER · NOVEMBER 1938

WELLESLEY · MASSACHUSETTS



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CATALOGUE NUMBER  
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## DIRECTIONS FOR CORRESPONDENCE

In the list below are the names and addresses of persons to whom inquiries of various types should be sent. The post office address is Wellesley, Massachusetts.

### GENERAL POLICY OF THE COLLEGE

The President of Wellesley College

### ADMISSION OF UNDERGRADUATES

The Secretary of the Board of Admission

### APPLICATIONS FOR READMISSION

The College Recorder

### ADMISSION OF GRADUATES

The Dean of Graduate Students

### INQUIRIES CONCERNING HOUSES AND NOTICE OF WITHDRAWAL

The Dean of Residence

### PAYMENT OF COLLEGE BILLS

The Assistant Treasurer (Checks should be made payable to Wellesley College)

### SCHOLARSHIPS AND COÖPERATIVE HOUSES

Candidates for Admission—The Dean of Freshmen  
Students in College—The Dean of the College

### ACADEMIC WORK OF STUDENTS

The Dean of the College

### SOCIAL REGULATIONS

The Dean of Residence

### REQUESTS FOR TRANSCRIPTS OF RECORDS

The College Recorder

### ALUMNAE AND UNDERGRADUATE EMPLOYMENT

The Director of the Personnel Bureau

### REQUESTS FOR CATALOGUES

The Information Bureau

### ALUMNAE AFFAIRS

The Executive Secretary of the Alumnae Association

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1938

1939

1939

1940

JULY							JANUARY							JULY							JANUARY								
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Vacations, recesses, and holidays appear in *italics*.

## CALENDAR

ACADEMIC YEAR 1938-1939

Academic year begins . . . . .	Monday, September 26
Thanksgiving Day, holiday . . . . .	November 24
Christmas recess { from 3.30 p.m. to 10.30 p.m. . . . .	Thursday, December 15
Examinations . . . . .	Wednesday, January 4
Second semester begins . . . . .	January 30-February 9
Spring recess { from 3.30 p.m. to 10.30 p.m. . . . .	Monday, February 13
Memorial Day, holiday . . . . .	Thursday, March 30
General examination for seniors . . . . .	Monday, April 10
Examinations . . . . .	May 30
Commencement . . . . .	June 2
	June 5-14
	Monday, June 19

ACADEMIC YEAR 1939-1940

Examinations . . . . .	September 19-22
Freshman week . . . . .	September 19-23
Halls of residence open for new students, 9 A.M. . . . .	Tuesday, September 19
Registration closes for new students, 10.30 P.M. . . . .	Tuesday, September 19
Halls of residence open for all other students, 2 P.M. . . . .	Thursday, September 21
Registration closes for all other students, 10.30 P.M. . . . .	Friday, September 22
Academic year begins . . . . .	Monday, September 25
Thanksgiving Day, holiday . . . . .	November 30
Christmas recess { from 3.30 P.M. . . . .	Thursday, December 21
to 10.30 P.M. . . . .	Wednesday, January 10
Examinations . . . . .	January 29-February 8
Second semester begins . . . . .	Monday, February 12
Spring recess { from 3.30 P.M. . . . .	Thursday, March 28
to 10.30 P.M. . . . .	Monday, April 8
Memorial Day, holiday . . . . .	May 30
General examination for seniors . . . . .	May 31
Examinations . . . . .	June 3-12
Commencement . . . . .	Monday, June 17

## BOARD OF TRUSTEES

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FREDERIC HAINES CURTISS	Boston
<i>Vice President</i>	
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<i>Secretary</i>	
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BELLE SHERWIN, B.S., LL.D.	Washington, D. C.
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BOYNTON MERRILL, B.A., D.D.	West Newton
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ALICE CHENEY BALTZELL	Wellesley
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MARIE RAHR HAFFENREFFER, B.A.	Brookline
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<i>President of Wellesley College</i>	
JAMES DEAN, B.A. ex officio	Brookline
<i>Treasurer of Wellesley College</i>	

## COMMITTEES

*The President of the College is a member ex officio of all standing committees*

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F. MURRAY FORBES	JAMES DEAN ( <i>ex officio</i> )

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ROBERT GRAY DODGE	JAMES DEAN ( <i>ex officio</i> )
WALTER HUNNEWELL	

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FRANK GILMAN ALLEN	GRACE GOODNOW CROCKER
JAMES DEAN	

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WALTER HUNNEWELL	RUTH BAKER PRATT

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ALBERT DAVIS MEAD	MARGARET ELLIOTT TRACY
RUTH BAKER PRATT	EDWARD ALLEN WHITNEY

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EDITH JONES TOWER	

*Faculty Members*

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EDWARD ELY CURTIS	Laura Hibbard Loomis
HELEN PHIPPS HOUCK	BLANCHE PRICHARD McCRRUM ( <i>ex officio</i> )

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JAMES DEAN ( <i>ex officio</i> )	( <i>ex officio</i> )
DONALD WATSON HEIGHT ( <i>ex officio</i> )	

*Faculty Members*

LOUISE OVERAKER	LAWRENCE SMITH
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GRACE GOODNOW CROCKER, *Secretary*

MARIE RAIR HAFFENREFFER	JAMES DEAN
FREDERIC HAINES CURTISS	RUTH BAKER PRATT

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*Professor of Zoölogy, Emeritus*

ALICE VAN VECHTEN BROWN, M.A.,

*Professor of Art, Emeritus*

ELLEN LOUISA BURRELL, B.A.,

*Professor of Pure Mathematics, Emeritus*

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*Professor of Music, Emeritus*

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*Research Professor of Botany*

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*Professor of Biblical History, Emeritus*

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*Professor of Geology and Geography, Emeritus*

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*Professor of English Literature, Emeritus*

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*Professor of Greek and Comparative Philology, Emeritus*

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*Professor of Chemistry, Emeritus*

MARGARET POLLOCK SHERWOOD, PH.D., L.H.D.,

*Professor of English Literature, Emeritus*

HELEN ABBOT MERRILL, PH.D.,

*Professor of Mathematics, Emeritus*

\* The officers of instruction and administration, exclusive of the retired members, are listed by rank in order of appointment. All professorial ranks are combined in one group.

An alphabetical list of officers will be found on page 191.

ALICE WALTON, PH.D., *Professor of Latin and Archaeology, Emeritus*  
ALICE VINTON WAITE, M.A., *Professor of English Language and Literature and Dean, Emeritus*  
LAURA EMMA LOCKWOOD, PH.D., *Professor of English Language and Literature, Emeritus*  
WILLIAM SKARSTROM, M.D., M.P.E., *Professor of Hygiene and Physical Education, Emeritus*  
CLARA ELIZA SMITH, PH.D., *Professor of Mathematics, Emeritus*  
OLIVE DUTCHER DOGGETT, M.A., B.D., *Professor of Biblical History, Emeritus*  
CAROLINE REBECCA FLETCHER, M.A., *Professor of Latin, Emeritus*  
GRACE EVANGELINE DAVIS, M.A., *Associate Professor of Physics, Emeritus*  
ALICE HUNTINGTON BUSHEE, M.A., *Professor of Spanish, Emeritus*  
SOPHIE CHANTAL HART, M.A., *Professor of Rhetoric and Composition, Emeritus*  
MARIAN ELIZABETH HUBBARD, B.S., *Professor of Zoölogy, Emeritus*  
ETHEL DANE ROBERTS, B.A., B.L.S., *Librarian, Emeritus*  
JULIA ELEANOR MOODY, PH.D., *Professor of Zoölogy, Emeritus*  
MYRTILLA AVERY, PH.D., *Professor of Art, Emeritus*  
ARTHUR ORLO NORTON, M.A., *Professor of the History and Principles of Education, Emeritus*  
EDNA VIRGINIA MOFFETT, PH.D., *Professor of History, Emeritus*

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LOUISE SHERWOOD McDOWELL, PH.D., *Class of 1898 Professor of Physics*  
MARTHA HALE SHACKFORD, PH.D., *Class of 1914 Professor of English Literature*  
JULIA SWIFT ORVIS, PH.D., *Alice Freeman Palmer Professor of History*

NATALIE WIPPLINGER, PH.D.,	<i>Carla Wenckebach Professor of German</i>
AGNES FRANCES PERKINS, M.A., M.S.,	<i>Sophie Chantal Hart Professor of English Composition</i>
ELISABETH HODDER, PH.D.,	<i>Class of 1915 Professor of History</i>
LAETITIA MORRIS SNOW, PH.D.,	<i>Susan M. Hallowell Professor of Botany</i>
JOSEPHINE HARDING BATCHELDER, M.A.,	<i>Associate Professor of English Composition</i>
EUGENE CLARENCE HOWE, PH.D.,	<i>Professor of Hygiene and Physical Education</i>
JOHN CHARLES DUNCAN <sup>2</sup> , PH.D.,	<i>Professor of Astronomy and Director of the Whitin Observatory</i>
MARY CAMPBELL BLISS, PH.D.,	<i>Associate Professor of Botany on the Margaret C. Ferguson Foundation</i>
EDWARD ELY CURTIS, PH.D.,	<i>Ralph Emerson Professor of North American History</i>
ELIZABETH WHEELER MANWARING, PH.D.,	<i>Class of 1902 Professor of English Composition</i>
HELEN SOMERSBY FRENCH <sup>3</sup> , PH.D.,	<i>Charlotte Fitch Roberts Professor of Chemistry</i>
MURIEL STREIBERT CURTIS, B.A., B.D.,	<i>Associate Professor of Biblical History</i>
ALFRED DWIGHT SHEFFIELD, M.A.,	<i>Professor of Group Leadership and English Composition</i>
LAURA HIBBARD LOOMIS <sup>3</sup> , PH.D.,	<i>Katharine Lee Bates Professor of English Literature</i>
MARY JEAN LANIER, PH.D.,	<i>Professor of Geology and Geography</i>
MABEL MINERVA YOUNG, PH.D.,	<i>Lewis Atterbury Stimson Professor of Mathematics</i>
Alice Maria Ottley, PH.D.,	<i>Ruby Frances Howe Farwell Professor of Botany, Curator of Herbarium and Associate Director of Botanic Gardens</i>
HOWARD EDWARD PULLING, PH.D.,	<i>Professor of Botany</i>
ANNIE KIMBALL TUELL <sup>3</sup> , PH.D.,	<i>Professor of English Literature</i>
ANNA BERTHA MILLER, PH.D.,	<i>Professor of Latin</i>

<sup>2</sup> Absent on leave for the first semester.

<sup>3</sup> Absent on leave for the second semester.

LENNIE PHOEBE COPELAND, PH.D.,	<i>Helen Day Gould Professor of Mathematics</i>
LOUISE PETTIBONE SMITH, PH.D.,	<i>John Stewart Kennedy Professor of Biblical History</i>
SEAL THOMPSON, M.A.,	<i>Professor of Biblical History</i>
JUDITH BLOW WILLIAMS <sup>3</sup> , PH.D.,	<i>Professor of History</i>
LUCY WILSON, PH.D.,	<i>Professor of Physics, and Acting Dean of the College</i>
HELEN SARD HUGHES, PH.D.,	<i>Professor of English Literature, and Dean of Graduate Students</i>
BARNETTE MILLER, PH.D.,	<i>Professor of History</i>
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EDITH MARGARET SMAILL, A.A.,	<i>Assistant Professor of Speech</i>
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ADA MAY COE, M.A.,	<i>Associate Professor of Spanish</i>
THOMAS HAYES PROCTER, PH.D.,	<i>Professor of Philosophy</i>

<sup>3</sup> Absent on leave for the second semester.

MICHAEL JACOB ZIGLER, PH.D.,	<i>Associate Professor of Psychology</i>
MARGARET ALGER HAYDEN, PH.D.,	<i>Associate Professor of Zoölogy</i>
KATHARINE CANBY BALDERSTON, PH.D.,	<i>Associate Professor of English Literature</i>
LOUISE OVERACKER, PH.D.,	<i>Associate Professor of Political Science on the Elizabeth Kimball Kendall Foundation</i>
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LAWRENCE SMITH, M.A.,	<i>Associate Professor of Economics and Sociology on the Stephen Greene Foundation</i>
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HOWARD HINNERS, B.A.,	<i>Caroline Hazard Professor of Music</i>
MARION ELIZABETH STARK <sup>2</sup> , PH.D.,	<i>Associate Professor of Mathematics</i>
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CHARLOTTE GENEVIEVE MACEWAN, M.S.,	<i>Assistant Professor of Hygiene and Physical Education</i>
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<sup>2</sup> Absent on leave for the first semester.

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RUTH HUTCHINSON LINDSAY, PH.D.,	<i>Associate Professor of Botany</i>
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GLADYS KATHRYN McCOSH, PH.D.,	<i>Associate Professor of Zoölogy</i>
ELIZABETH BEALL, M.A.,	<i>Assistant Professor of Hygiene and Physical Education</i>
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ANITA OYARZABAL <sup>1</sup> , M.A.,	<i>Assistant Professor of Spanish</i>

<sup>1</sup>Absent on leave.<sup>2</sup>Absent on leave for the second semester.

BARBARA PHILIPPA McCARTHY, PH.D.,	<i>Assistant Professor of Greek</i>
DOROTHY MAE ROBATHAN, PH.D.,	<i>Associate Professor of Latin, and Dean of the Class of 1939</i>
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<sup>2</sup> Absent on leave for the first semester.

<sup>4</sup> Appointed for the first semester only.

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*of the Choir on the Hamilton C. Macdougall Foundation*

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*Instructor in Hygiene and Physical Education*

KATHARINE FULLER WELLS, M.S.,

*Instructor in Hygiene and Physical Education*

MARY ELIZABETH POWELL, M.S.,

*Instructor in Hygiene and Physical Education*

<sup>1</sup>Appointed for the second semester only

GLADYS AVERY LEBERT,	<i>Instructor in Vocal Music</i>
JEAN HELEN HARRIS, M.S.,	<i>Instructor in Hygiene and Physical Education</i>
ALICE MARGUERITE MARIE MALBOT, LIC. ÈS LET.,	<i>Instructor in French</i>
JOHANNA ELISABETH VOLBEHR,	<i>Instructor in German</i>
YVES CHARDON,	<i>Instructor in Violoncello</i>
JEANNETTE BARRY LANE, PH.B.,	<i>Instructor in Speech</i>
RICHARD BURGIN,	<i>Instructor in Violin</i>
HELEN BUTTS CORRELL, PH.D.,	<i>Instructor in Zoölogy</i>
LOUISE PALMER WILSON, PH.D.,	<i>Instructor in Zoölogy</i>
ADELE DE LA BARRE ROBINSON, B.A., B.DES.,	<i>Instructor in Art</i>
DAVID BARNETT, B.A.,	<i>Instructor in Piano</i>
ELEANOR LEACH, M.A.,	<i>Instructor in Zoölogy and Custodian of the Laboratories</i>
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RUTH CARPENTER CHILD, PH.D.,	<i>Instructor in English Composition</i>
ELIZABETH ROGERS PAYNE, PH.D.,	<i>Instructor in English Composition</i>
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ELISABETH MEREDITH RODRIGUE, M.A.,	<i>Instructor in French</i>
LAURA DE LOS RÍOS, LIC. EN LETRAS,	<i>Instructor in Spanish</i>
DELAPHINE GRACE ROSA, PH.D.,	<i>Instructor in Botany</i>
MARY SEARS, PH.D.,	<i>Instructor in Zoölogy</i>
MARGARETA AGATA FAISSLER <sup>5</sup> , PH.D.,	<i>Instructor in History</i>
MELITA AUGUSTA HOLLY <sup>4</sup> , M.A.,	<i>Instructor in Mathematics</i>
GROSVENOR WILLIAM COOPER, M.A.,	<i>Instructor in Music</i>

<sup>4</sup>Appointed for the first semester only.

<sup>5</sup>Appointed for the second semester only.

SAMUEL MAGEE GREEN <sup>3</sup> , B.A.,	<i>Instructor in Art</i>
MARY LOUISE BARRETT, M.S.,	<i>Instructor in Physics</i>
RENÉE BARRUCAND WHITE, B.A., DIPLO. P.F.E.,	<i>Instructor in French</i>
THELMA GORFINKLE ALPER, M.A.,	<i>Assistant in Psychology</i>
FRANCES DUNBAR NICHOLS, M.A.,	<i>Assistant in Education</i>
ALFRED HAROLD HOLWAY, PH.D.,	<i>Assistant in Psychology</i>
MALCOLM HAUGHTON HOLMES, B.S.,	<i>Assistant in Music, Conductor of the Orchestra and Director of Chamber Music</i>
SARAH EMILY BROWN, M.F.A.,	<i>Assistant in Theatre Workshop</i>
ROSEMARY HUDSON, M.A.,	<i>Assistant in Physics</i>
MADELINE PALMER, M.A.,	<i>Assistant in Botany</i>
DORIS MARGUERITE BABBIDGE, B.A.,	<i>Assistant in Chemistry</i>
ELIZABETH ROBERTS CORNWALL, B.A.,	<i>Assistant in Astronomy</i>
BONNIE ELIZABETH ELLEDGE, B.A.,	<i>Assistant in Chemistry</i>
MARGARET HENSON, B.A.,	<i>Assistant in Physiology</i>
MARY CANFIELD WHITMAN, B.A.,	<i>Assistant in Psychology</i>
HARRIET NASH TOWLE, B.A.,	<i>Assistant in Zoölogy</i>
LORA BOND, B.A.,	<i>Assistant in Botany</i>
GENEVIEVE CORBETT, B.A.,	<i>Assistant in Chemistry</i>
JOCELYN RUTH GILL <sup>4</sup> , B.A.,	<i>Assistant in Astronomy</i>
JEANETTE LEONE MANDREY, B.A.,	<i>Assistant in Zoölogy</i>

<sup>4</sup>Appointed for the first semester only.

<sup>5</sup>Appointed for the second semester only.

SARAH ELLEN PURVIS, B.A.,	<i>Assistant in Chemistry</i>
MARJORIE CONSER STALLCUP, B.S.,	<i>Assistant in Botany</i>
KATHERINE MAHALA VAN HORN, B.A.,	<i>Assistant in Physics</i>
YVETTE DOROTHY GITTLESON, B.A.,	<i>Assistant in Psychology</i>

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RUSSELL GIBSON, PH.D.,	<i>Lecturer in Geology</i>
EMMA MARSHALL DENKINGER, PH.D.,	<i>Lecturer in English Composition</i>
MARY FISHER DEKRUUF, M.D.,	<i>Lecturer in Hygiene and Physical Education, and Health Officer</i>
AMY KELLY, M.A.,	<i>Lecturer in English Composition, and Head of Claflin Hall</i>
HUBERT WELDON LAMB, B.A.,	<i>Lecturer in Music</i>
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SPECIAL LECTURERS IN THE DEPARTMENT OF HYGIENE  
AND PHYSICAL EDUCATION

W. RUSSELL MACAUSLAND, M.D.,	<i>Lecturer on Orthopedics</i>
ANDREW R. MACAUSLAND, M.D.,	<i>Lecturer on Orthopedics</i>

<sup>5</sup>Appointed for second semester only.

MARGARET R. ANTHONISEN, M.D.,

*Lecturer on Mental Hygiene*

LORETTA JOY CUMMINS, M.D.,

*Lecturer on Hygiene of the Skin*

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*Dean of the Class of 1940, and Associate Professor of Chemistry*

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LUCILLE MARGARET KEATING, B.A.,	<i>Librarian of Sarah Frances Whiting and Eleanor Gamble Memorial Libraries</i>
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MARY FISHER DEKRUIF, M.D.,	<i>Health Officer, and Lecturer in Hygiene and Physical Education</i>
MARGARET RIOCH ANTHONISEN, M.D.,	<i>Consultant in Mental Hygiene</i>
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EVELYN BARTLETT YATES, B.A.,	<i>Manager of the Information Bureau</i>

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ADMINISTRATIVE BOARD.—Miss Wilson (*Chairman*), Misses Dodson, Hall, La Piana, Taylor; Mrs. A. B. Nichols; Mr. Hyatt, and (*ex officiis*) the President, the Dean of Residence, the Class Deans, the College Recorder, and a College Physician.

BOARD OF ADMISSION.—Miss Knapp (*Chairman*), Misses Hayden, Johnson, H. G. Russell; Mrs. Hodder, and (*ex officiis*) the President, the Dean of the College, the Executive Secretary of the Board of Admission.

COMMITTEE ON COLLEGE PROBLEMS.—Miss Orvis (*Chairman*), Misses Abbot, Ball, Beall, Coe, Heyworth.

COMMITTEE ON CURRICULUM AND INSTRUCTION.—Miss Wilson (*Chairman*), Misses Armstrong, Clark, McCarthy, Parker (first semester), Stark (second semester); Mrs. Mallory; Mr. Mussey, and (*ex officio*) the President.

COMMITTEE ON DISCIPLINE.—Miss McAfee (*Chairman*), Miss Heidbreder, and (*ex officiis*) the Dean of the College and the Dean of Residence.

COMMITTEE ON GRADUATE INSTRUCTION.—Miss Hughes (*Chairman*), Misses Bosano, Lindsay, McCosh, Sleeper (second semester), Smith; Messrs. Hinners (first semester), Smith; and (*ex officiis*) the President, the Dean of the College and the Director of the Department of Hygiene and Physical Education.

COMMITTEE ON LANGUAGE READING REQUIREMENT.—Miss Der Nersessian (*Chairman*), Misses Coe, La Piana, Law, Melcher, A. Bertha Miller, Salditt.

COMMITTEE ON NOMINATIONS.—Miss Balderston (*Chairman*), Misses Dennis, McDowell, Ottley; Mrs. Bongiorno.

PERSONNEL BOARD.—Miss McAfee (*Chairman*), Misses Davis (second semester), Williams (first semester); and (*ex officiis*) the Deans, the Recorder, the Resident Physician, the Health Officer, the Consultant, and the Director of the Personnel Bureau.

COMMITTEE ON REAPPOINTMENTS, PROMOTIONS AND DISMISSALS.—Miss McAfee (*Chairman*), Misses Copeland, McDowell, Overacker, Whiting; Mr. Sheffield; and (*ex officio*) the Dean of the College.

COMMITTEE ON SCHOLARSHIPS.—Miss Wilson (*Chairman*), Misses Howard, Manwaring, Barnette, Miller, Young; and (*ex officiis*) the

Dean of Residence, the Dean of Freshmen, the College Recorder, and the Secretary to the President.

COMMITTEE ON STANDARDIZATION OF MARKS.—Mrs. Killough (*Chairman*), Misses Austin, Copeland.

COMMITTEE ON STUDENT RECORDS.—Miss Wilson (*Chairman*), Misses Batchelder, E. E. Jones, Moses, Waterman; Mr. Zigler; and (*ex officiis*) the President, the Class Deans, the College Recorder, and the Director of the Personnel Bureau.

### REPRESENTATIVES ON JOINT COMMITTEES

ALUMNAE COUNCIL.—Misses Armstrong, Bruel, George, Parker, Thalmann; Mrs. Loomis; Messrs. Campbell, Jenks, Motter.

BOARD OF CONTROL OF THE ALEXANDRA GARDEN AND HUNNEWELL ARBORETUM.—Miss Davis (*Chairman*), Miss Ottley; Mr. Steiger; and (*ex officiis*) the President and the Chairman of the Department of Botany.

COMMITTEE ON CHRISTIAN ASSOCIATION SECRETARY.—Miss George (*Chairman*), Misses Howard, Treudley.

CONFERENCE OF FIVE COLLEGES.—Miss Heidbreder; and (*ex officiis*) the President and Dean of the College.

LIBRARY COUNCIL.—Misses Copeland, Johnstin, Stearns (second semester); Mrs. Houck, Mrs. Loomis (first semester); Mr. Curtis; and (*ex officiis*) the President, the Librarian and Associate Librarians.

THE SENATE OF THE COLLEGE GOVERNMENT ASSOCIATION.—Misses Hawk, H. T. Jones, Roche; Mr. Wellman, and (*ex officio*) the President.

SUB-COMMITTEE ON STUDENT PUBLICATIONS.—Miss Austin; Mrs. Killough; Mr. Motter.

SUB-COMMITTEE ON SOCIAL SCHEDULE.—Misses de Banke, Hawk, Pernot; and (*ex officiis*) a representative of the Publicity Department and a representative of the office of the Dean of Residence.

THE SUPERIOR COURT OF THE COLLEGE GOVERNMENT ASSOCIATION.—Misses Kaan, Kingsley, Wiggin; and (*ex officio*) the President.

## FOUNDATION AND PURPOSE

WELLESLEY COLLEGE is one of that group of women's colleges established in the nineteenth century to offer to young women the educational opportunities "equivalent to those usually provided in colleges for young men." The motive of its founder, Henry Fowle Durant, was, however, something more than the enrichment of the experience of young women for their own sake. Addressing the first students in the fall of 1875 he said, "You mistake altogether the significance of the movement of which you are a part if you think this is simply a question of a college education for girls. I believe that God's hand is in it; . . . that He is calling to womanhood to come up higher, to prepare herself for great conflicts, for vast reforms in social life, for noblest usefulness."

To the end of preparing women for positions of responsibility, Mr. Durant insisted from the beginning on the maintenance of high academic standards, and of healthy community life in beautiful surroundings. He built an impressive College Hall on his own spacious estate fourteen miles west of Boston, and spared no pains to make his gift contribute to the aesthetic development of students. He began to beautify the three hundred acre campus which has become one of Wellesley's distinctive assets. He encouraged the inclusion in the student body of representatives from all parts of the country and from foreign lands. He placed more emphasis on personal quality than on the accident of economic status, and he maintained a real democracy within the college family. He opened unusual professional opportunities to women on the faculty. He introduced laboratory work in science before it was widely recognized as academically necessary. He recognized the significance of the arts in education and encouraged "learning by doing." He assumed that religion was a normal part of the life of educated people and made provision for its study and expression in the program of the new community.

Through the years the external aspects of Wellesley College have changed almost completely. It started with three hundred students, most of them in a preparatory department which was a part of the College until 1879. It has become a college for fifteen hundred students, with fifty or sixty graduate students. Starting with one building, it now has forty-five. It began with Mr. Durant's private library of less than 10,000 volumes. Its present library has outgrown the building designed to accommodate 135,000 volumes and has 184,000 spread over the campus in a series of departmental units. Its one gymnasium room has been replaced by two large buildings to provide instructional and recreational facilities for the Graduate Department of Hygiene and Physical Education as well as the enlarged undergraduate group.

Through the years the methods of the founder and his wife have changed to meet new conditions, modified under the leadership of a distinguished group of men and women, but the fundamental purposes continue to direct the modern Wellesley which still uses Mr. Durant's chosen motto, "Non ministrari sed ministrare."

## ADMISSION

Candidates for the Bachelor of Arts degree may qualify for admission to Wellesley College either as members of the freshman class, or as students with advanced standing who present records from accredited colleges. Since the size of the student body is limited to about fifteen hundred students, candidates in both groups are chosen very carefully in order of the excellence of their credentials, which include testimonials concerning health, character, and scholarship.

### APPLICATION FOR ADMISSION

Forms of application will be furnished on request. An application fee of \$10 is required of all applicants and no registration is recorded until the fee is received. If the candidate cancels her registration or does not enter the College for any reason, the fee is not refunded, but it may be transferred to apply to a later year if the request for the transfer is received before November 1 of the year for which the candidate is registered to enter college. If no request to transfer the application is filed by November 1, the name of the candidate will be automatically dropped from the list.

Application for admission to the College may be made to the Secretary of the Board of Admission at any time up to May 1 of the year of entrance. A student is advised to make application at the beginning of her secondary school course and she is urged to do so not later than the fall of her junior year in secondary school so that her plan of work may be approved before it is too late to make schedule changes. Since rooms are assigned according to the date of application, there is an added advantage in early registration.

All communications concerning admission should be addressed to the Secretary of the Board of Admission, Wellesley College, Wellesley, Massachusetts.

### HEALTH CERTIFICATES

A report from the applicant's physician showing that she is organizationally sound and in good health, together with a certificate of vaccination, must be filed with the Secretary of the Board of Admission before May 1 of the year in which admission is sought. The College reserves the right to reject any candidate who, in the opinion of the college physicians, is not fitted for work in the college community.

### ADMISSION TO THE FRESHMAN CLASS

Through its admission procedure, the College tries to select students with good intellectual ability, adequate preparation for further study, genuine interest in some of the lines of study offered at Wellesley Col-

lege, and a purpose which will give incentive to steady work. In making its selection of students, the Board of Admission reviews school records and recommendations, entrance examinations, psychological and scholastic aptitude tests, and information from the candidate concerning her interests and plans of study. Students who are interested in admission should consult the following description of plans of entrance subjects and methods of admission.

#### ADMISSION SUBJECTS

The plan of entrance subjects described below is designed to give students a foundation for work in various fields of study in the liberal arts college. Since most college applicants have good general ability in several lines of work and are uncertain before they enter college where their interests in more advanced study may lead, it is important for them to secure in secondary school such training and information as will give them the greatest freedom of election in college. The College recommends the following plan:

English . . . . .	3 units
(The usual four-year secondary school course must be completed for three units of credit)	
Foreign Language . . . . .	5 units
Latin or Greek . . . . .	3 units
A modern language: French, German, Italian, Spanish . . . . .	2 units
History . . . . .	1 unit
Mathematics . . . . .	3 units
Algebra . . . . .	2 units
Plane Geometry . . . . .	1 unit
Science . . . . .	1 unit
Elective Subjects . . . . .	2 units

This plan allows every student two elective units for additional work in the fields which she believes have greatest value for her. Since most students complete more than fifteen units in secondary school, there is usually even wider opportunity for election. In the elective group the College will accept additional units in any of the subjects listed in the usual program, or one or two units of art or music, a unit of Biblical history, or one or two units in the social sciences besides history. Students interested primarily in languages, literature, and the arts are advised to offer for admission four units of Latin and two units of history, including one of European history.

The College realizes that the few students who have marked ability and interest in science or mathematics may find it beneficial to take more courses in modern language while at the same time adding to their

programs more than the required courses in the fields of mathematics or science. To provide this opportunity the College regularly allows these students to meet the five-unit language requirement by offering a combination of any two of the following languages: French—2 or 3 units; German—2 or 3 units; Latin—2 units.

Similarly, to allow students with special interest and ability in languages, literature, the arts, or social sciences an opportunity to take extra courses in these fields, the entrance requirement in mathematics may be reduced to include only two units provided the course includes both algebra and plane geometry, or the entrance unit in science may be omitted. Students who are interested in economics are advised to offer for entrance three units of mathematics.

The College also recognizes the fact that there are students interested in entering Wellesley whose course of study in secondary school does not meet in all respects any one of the plans of study recommended for admission. In such cases the Board of Admission will be glad to consider the school records but will not take final action on the requests for exceptions until the records are completed in July of the year of entrance to college. The decisions upon these exceptional cases will depend on the quality of the students' records when their applications are considered with the applications of students who have met all the requirements.

The Board of Admission is interested also to consider courses which do not follow the usual unit requirements in subjects, especially if such courses are organized as sequences of study in given fields. The College wishes to coöperate with schools and applicants for admission in their effort to organize programs of study which will further the real educational needs of students in their secondary school course and will also give an adequate basis for continuing their work in college. Students are urged to discuss their plans of work early in the secondary school course with their school advisers and to confer also with the Wellesley College Board of Admission. In advance of correspondence with individual students, the Board will welcome from the school principals information about unusual curricular plans or courses which the schools recommend to their college groups.

#### SCHOOL RECORDS

Complete records of a student's work in secondary school are required. Blanks for the preliminary records are sent to school principals in the spring, a year in advance of the student's completion of preparatory work. Blanks for supplementary records are sent in the spring of the year of final preparation for college.

The school record must be supplemented by statements from the

school principals, concerning the special abilities and interests of the student, power of sustained work, good health habits, integrity, sense of responsibility, coöperativeness, initiative and self-reliance in work and in social action. The College wishes to be informed of circumstances which may have furthered or interfered with a student's work and of special honors and accomplishments during the student's secondary school course.

#### ADMISSION PLANS

There are several possible plans of admission to Wellesley College. A description of each plan follows:

**PLAN A.**—Under Plan A, examinations must be taken in all subjects offered for admission credit, either the examinations of the College Entrance Examination Board, Regents examinations of New York State or, for foreign students, the matriculation examinations of a foreign university. Plan A is used by less than a third of the candidates for admission to Wellesley College.

Examinations may be taken in two or more successive years. Students are advised to take final examinations in subjects which they expect to continue in College.

Entrance examinations in Biblical History, Harmony, Music Appreciation and Applied Music will be conducted by Wellesley College. Applications for these examinations must be made to the Secretary of the Board of Admission of Wellesley College by May 1.

For detailed information concerning the application for the examinations of the College Entrance Examination Board, candidates should consult the statement on pages 36-37 under the caption "Examinations of the College Entrance Examination Board."

Regents examinations with a rating of 75 per cent may be offered by students in New York State schools in place of the examinations of the College Entrance Examination Board. Credits must be presented on the card verified by the State Board of Education of New York. The Board of Admission considers an average lower than 90 per cent as doubtful evidence of ability for college work. For further information concerning the acceptance of Regents examinations, candidates are referred to the Board of Admission of Wellesley College.

**PLAN B.**—Under Plan B, four examinations of the College Entrance Examination Board are considered in connection with the school record to determine a candidate's admission. One examination subject must be chosen from each of the following groups: (1) English or History; (2) a foreign language; (3)\* Mathematics, Physics, or Chemistry; (4) a

\* In group (3) an examination in Biology may be offered in place of Mathematics, Physics, or Chemistry, with the approval of the Board of Admission.

fourth subject designated by the applicant from the list of admission subjects in which the College Entrance Examination Board offers examinations. At least two examinations must each cover more than two years of work.

The comprehensive examinations set by the College Entrance Examination Board are rated by readers appointed by this Board, and are not reported to the candidate but only to the College for final decision by the Board of Admission.

Under Plan B the candidate, if admitted to college, will be admitted free from all conditions. Failure to meet completely the standard in either kind of evidence required will not necessarily involve rejection of the applicant; the Board may accept unusual excellence in one part of the credentials submitted as offsetting unsatisfactory evidence or even failure in another part. If the candidate fails of admission, she may be permitted to take examinations under Plan A or Plan B the following June.

The four examinations must be taken in one examination season in June in the examination centres provided by the College Entrance Examination Board. Full details about applying for these examinations will be found on page 36 under the caption "Examinations of the College Entrance Examination Board."

**PLAN C.**—Under Plan C, candidates must take at the end of the junior year the Scholastic Aptitude Test and two examinations of the College Entrance Examination Board chosen from the groups required under Plan B. The English examination should not be taken until the end of the senior year. On the basis of the results of these examinations, the Scholastic Aptitude Test, school records, and recommendations from the principal, candidates may be given permission to complete their credentials by taking two examinations in the next examination season. Acceptance will depend upon the results of the final examinations and upon the school records of the senior year. As in Plan B, the results of the examinations are reported to the College instead of to the candidate.

A candidate whose examination record at the end of the junior year is not satisfactory may apply for admission by examinations to be taken in the senior year under Plan A or B.

Candidates wishing to use Plan C should make application to the Board of Admission on or before May 1 of their junior year in secondary school.

**PLAN D.**—Under Plan D, admission depends on the school records and recommendations and the Scholastic Aptitude Test, which should be taken at the end of the junior year. To be considered for admission by Plan D, a candidate must apply for entrance to Wellesley College by

May 1 of the year in which she first graduates from secondary school and she must have ranked during the last two years of her school course among the highest seventh of a class containing at least seven students. When the graduating class numbers less than 75, Plan D as a method of admission is usually not advised for students low in the highest seventh group. Unqualified recommendation of the candidate by her school principal or headmistress is essential. Since all admission is on a selective basis, candidates for entrance by Plan D cannot be guaranteed admission.

Candidates from any school except those offering New York State Regents examinations may be considered for admission by Plan D. The College, however, will feel free in making its choice of students to consider the geographical distribution in the entering class and the proportional representation from public and private schools.

**PROGRESSIVE EDUCATION ASSOCIATION PLAN.**—Wellesley College is coöperating with the selected group of schools in the experiment in secondary education inaugurated by the Progressive Education Association. For the period of the experiment students with promising records from these schools will be eligible to be considered for admission on the basis of the school records and tests administered by the schools together with the Scholastic Aptitude Test of the College Entrance Examination Board.

#### SCHOLASTIC APTITUDE TEST

The Scholastic Aptitude Test of the College Entrance Examination Board is required of all candidates for admission and students are advised to take it at the end of the junior year in secondary school. Considerable reliance is placed upon the result of this test by the Board of Admission in making its decision upon an application.

#### DATES ON WHICH ADMISSION CREDENTIALS ARE DUE

The following credentials must be in the hands of the Board of Admission before July 15 of the year in which entrance is desired:

1. Within at least two weeks after receipt, personal information blank with the candidate's choice of examination plan.
2. Before March 1—Scholarship applications and requests for financial aid. (*Form* must be obtained in advance. For information of basis of award, see page 160.)
3. Before May 1—Health certificates and three 17 $\frac{1}{2}$ " by 2 $\frac{1}{4}$ " photographs.
4. During May—Application for examinations of the College Entrance Examination Board, including Scholastic Aptitude Test (for exact dates, see below).

5. Before July 1—Official transcript of school record for the final year. (Blank sent to school in May.)
6. Before July 15—Official reports of College Board and Regents examinations.

#### EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

JUNE EXAMINATIONS.—The College Entrance Examination Board will hold examinations in June 1939 at over three hundred points in this country and abroad. A list of these places will be published about March 1, 1939. Requests that the examinations be held at particular points should be transmitted to the Executive Secretary of the College Entrance Examination Board not later than February 1, 1939.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of thirty cents, which may be remitted in postage.

All candidates wishing to take these examinations should make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Blank forms for this purpose will be mailed by the Secretary of the Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the examinations in June 1939 should reach the Secretary of the Board not later than the dates specified in the following schedule:

##### FOR EXAMINATION CENTRES:

In the United States east of the Mississippi River or on the Mississippi . . . . .	May 29, 1939
In the United States west of the Mississippi River or in Canada . . . . .	May 22, 1939
Outside of the United States and Canada, except in Asia . . . . .	May 8, 1939
In China or elsewhere in the Orient . . . . .	April 24, 1939

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of \$5 in addition to the regular examination fee of \$10.

When a candidate has failed to obtain the required blank form of application, the regular examination fee will be accepted if the fee arrive not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination centre selected, and a list of the subjects in which the candidate is to take the Board examinations.

When the examination supplies of the local supervisor permit, candidates who have failed to file applications for examination may be admitted by the supervisor, upon payment of a fee of \$5 in addition to the regular examination fee, to all examinations except the Scholastic Aptitude Test. Such candidates should present themselves at the beginning of the period of registration. They will receive from the supervisor blank forms of application which must be filled out and handed to the supervisor for transmission to the Secretary of the College Entrance Examination Board.

In order to exhibit their tickets of admission, to present their identification cards, and to obtain seats in the examination room, candidates should report for a morning examination at 8:45 and for an afternoon examination at 1:45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time (Standard Time or Daylight Saving Time) observed in the local schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after the test has begun.

The Scholastic Aptitude Test may be taken upon the completion of the school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though he is to take no other examination, must file with the Secretary of the Board the usual application for examination. If the Scholastic Aptitude Test is taken in connection with other examinations, no additional fee is required; if taken alone, the fee is \$10.

Every candidate who is to take the test will receive a booklet containing, with explanations and instructions, a specimen test, the blank spaces of which are to be filled in by the candidate. In order to secure admission to the test, the candidate must present not only his ticket of admission but also this booklet with the spaces filled in as requested.

#### DEFINITION OF REQUIREMENTS

The requirements in all subjects in which the College Entrance Examination Board offers examinations are based on the statements outlined by this Board. The complete statement of these requirements may be found in the pamphlet called "A Definition of Requirements," published annually by the College Entrance Examination Board, which may be obtained by sending thirty cents in stamps to the following address: College Entrance Examination Board, 431 West 117th Street, New York City.

Information about requirements for examination in subjects not covered by the pamphlet of the College Entrance Examination Board may be obtained directly from the Board of Admission of Wellesley

College. A printed folder on the requirements in applied and theoretical music may be obtained from the Board of Admission.

## ADMISSION TO ADVANCED STANDING

### TERMS OF ADMISSION

The number of students admitted to advanced standing in any year is limited and all entrance is on a selective basis. If a student has maintained an excellent record in college and has special interests which she can follow at Wellesley College, the Board of Admission encourages her to apply for entrance with advanced standing credit. For information about registration candidates should read page 30.

A candidate should show that she has covered in general the admission requirements for the freshman class of fifteen units of secondary school work (see page 31) and has completed at least a full year of highly satisfactory work at another college. She should be entitled to honorable dismissal from the college which she has attended and should be recommended by her instructors. The Board of Admission will give information about the colleges and universities from which credits are accepted.

Residence of at least two years is required to obtain the B.A. degree, of which one must be the senior year. The work of these two years must include all the prescribed work (see page 41) not covered by the credentials submitted. The exact amount of credit given for work completed in another college will not be determined until after the first year of residence. The success with which advanced standing candidates carry the work in the first year at Wellesley is an important consideration in deciding credit.

The selection of applicants for admission with advanced standing will be made in July of the year in which entrance is desired.

### CREDENTIALS

The following credentials must be in the hands of the Board of Admission before July 1 of the year in which entrance is desired:

1. Official statement of college credits, with dates of attendance, courses offered for credit, grades attained in each course, entrance credits, and honorable dismissal.
2. Official record of any entrance examinations which have been taken.
3. Copy of the catalogue of the college attended, with name of candidate, list of courses offered for credit, and page references.
4. Letter of recommendation from one of candidate's instructors and the Dean.

5. Health credentials.
6. Statement from candidate of her reasons for wishing to transfer to Wellesley College and of the subjects of her major interest.

#### ADMISSION OF CANDIDATES FOR SPECIAL WORK

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the Board of Admission, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities for prosecuting work along special lines are thus open to persons of experience and success in teaching who possess the requisite qualifications for admission to college classes.

Applicants of less maturity and attainment are not ordinarily admitted. If such desire admission they must expect to meet the requirements prescribed for admission to the freshman class, or a full equivalent for them, and to satisfy such additional requirements as are prescribed by the departments which they propose to enter.

As the capacity of halls of residence is not sufficient for candidates for degrees, special students cannot be lodged in the college buildings. Comfortable homes may be found in the village at about the same expense as in college houses.

Correspondence should be addressed to the Executive Secretary of the Board of Admission.

#### ADMISSION OF CANDIDATES FOR THE M.A. AND M.S. DEGREES

Candidates for the degree of Master of Arts or Master of Science in Hygiene and Physical Education must be graduates of Wellesley College or of other institutions of satisfactory standing, and must present adequate credentials signifying their ability to carry on the work for the degree.

Application for admission as a graduate student in any department should be made upon a form which will be furnished by the Dean of Graduate Students on request. It is desirable that the application be sent by March first of the year in which the student proposes to enter. It should be accompanied (1) by the official record of courses and grades, (2) by a copy of the catalogue of the institution attended, marked to indicate the courses taken.

A matriculation fee of five dollars is payable when a student is accepted as a candidate for the Master's degree. The amount of this fee will be deducted from the diploma fee of twenty-five dollars payable when the degree is received.

Graduate fellowships and scholarships are described on pages 167-170. A circular containing full information for graduate students will

## ADMISSION

be sent on application to the Dean of Graduate Students. For requirements for the M.A. and M.S. degrees see page 46.

### ADMISSION OF CANDIDATES FOR THE CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION

A two years' course, especially designed for the training of teachers of hygiene and physical education, and leading to the certificate of the Department of Hygiene and Physical Education, is offered to graduates of approved colleges who meet the requirements. Full information will be found on pages 117-122.

Correspondence should be addressed to the Dean of Graduate Students.

## DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:

Bachelor of Arts.

Master of Arts.

Master of Science in Hygiene and Physical Education.

### REQUIREMENTS FOR THE B.A. DEGREE

In constructing the curriculum of which the requirements are given below, the faculty was guided by a belief that a student's four years in college should give her several specific sorts of training. The *prescribed work* is planned to assure her possession of certain skills which are of general use, and to add to the information which she has acquired before coming to college further information considered of fundamental importance. Thus the prescribed work in English Composition, Speech, and foreign language is designed to assure her having accuracy and effectiveness in speaking and writing English, and in reading at least one foreign language. The prescription in Hygiene affords the student a knowledge of the laws of health. The prescribed work in Biblical History gives a knowledge of the historical basis of Christianity.

The requirement of *work for distribution* is made with the purpose of securing for each student some acquaintance with methods of work and ways of thinking in various representative fields of knowledge. The requirement of *work for concentration* is made in order that the student shall make a reasonably thorough study of one field of knowledge. The curriculum is so planned that a student has an opportunity for a considerable amount of absolutely free elective work.

Every candidate for the B.A. degree must complete before graduation the equivalent of sixty hours, and have in addition a reading knowledge of one of the following: French, German, Greek, Italian, Latin, or Spanish.

The student will be permitted to present herself for the examination to test her reading knowledge of one of these foreign languages at the beginning of the freshman, sophomore, or junior year. In general the choice of the language to be offered is left to the student, but any department offering work for a major may require its major students to pass the examination in one particular language or in one of any two or more specified languages. A student should therefore consult the department in which she may wish to major before planning to take her language examination in a particular language. Students majoring in a foreign language will be tested in a reading knowledge of a second language; in this case students may postpone the examination until the beginning of the senior year.

Of the sixty hours required for the B.A. degree a certain number is prescribed, a certain number must be elected to fulfill the requirements of *work for distribution* and *work for concentration*, the rest is free elective.

#### 1. PRESCRIBED. The following subjects are required as specified:

Biblical History (in the sophomore year) . . . . .	3 hours
English Composition (unless exempted for the second semester by the department) . . . . .	3* "

\*If a student fails to pass with a grade of at least C in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

## DEGREES

Hygiene and Physical Education 120 (unless exempted by examination) . . . . .	1 hour
Hygiene and Physical Education (practical) . . . . .	1 $\frac{1}{2}$ "
Speech (unless exempted by examination) . . . . .	1 "

Of the required subjects, English Composition, three hours, must be taken in the freshman year; Hygiene and Physical Education one and one-half hours in the freshman year, and one-half hour in the sophomore year; Biblical History, three hours, in the sophomore year; Speech, one hour, before the junior year.

**II. WORK FOR DISTRIBUTION.** Six hours in addition to the prescribed work, to be elected in each of the three groups given below. The six hours in each of the three groups are to be elected so as to fall three hours in one department and three hours in another. Only one beginning course in a modern language may be counted for distribution.

Group I. Art, English Composition, English Literature, French, German, Greek, Italian, Latin, Music, Spanish, Speech.

Group II. Biblical History, Economics and Sociology, Education, History and Political Science, Philosophy and Psychology.

Group III. Astronomy, Botany, Chemistry, Geology and Geography, Mathematics, Physics, Zoölogy and Physiology.

Every freshman must take for distribution three hours in each of two groups; and every student is required to have had by the end of her sophomore year at least three hours counting for distribution in each group.

**III. WORK FOR CONCENTRATION.** Twenty-one hours in one field of concentration, of which a major of twelve to fifteen hours shall be in one department, and nine to six hours shall be in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.\*

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. Of the courses offered to fulfill the requirement of *work for concentration* at least one full course of grade III must be taken in the senior year. Of the twenty-one hours required at least nine hours must be above grade I and at least six hours must be of grade III.

**Every candidate for the B.A. degree must pass a general examination in a major subject in addition to the regular course examinations.**

## COURSE EXAMINATIONS

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies and for advanced standing may be taken during the regular examination period, during the days of the admission examinations in September, and on one day in April at the close of the spring vacation.

\* The second hour in Hygiene and Physical Education is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

\* In the interpretation of this requirement the departments of Geology and Geography, History and Political Science, Philosophy and Psychology shall count in each case as two departments.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must apply to the College Recorder for the requisite card of admission to the examination. The last day for receiving applications for such cards is for the September examinations, September first; for the mid-year examinations, January first; for the April examinations, March fifth; for the June examinations, May first.

N. B. Examinations for the removal of conditions and deficiencies excepted, no student can be admitted to examination upon a course which is not a part of her approved schedule for the year without permission both from the chairman of the department concerned and her class dean. No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.

#### STANDARD FOR GRADUATION

A certain quality grade is required for graduation and, for the purpose of determining this quality grade, numerical values called "points" are given to the grade letters as follows: for grade A, three points for each semester hour of the course in which the grade is received; for grade B, two points; for grade C, one point; for grade D (passing), no points; for a grade below D, no points and not counted in hours toward a degree. In order to be recommended for the degree of Bachelor of Arts a student must in each semester attain as many quality points as the hours she carries, i.e., a C average. Deficiency of points in any semester may be made good only in accordance with regulations adopted by the faculty. Students who are deficient in quality points at the end of the third year or who are otherwise not of diploma grade will not be permitted to continue.

The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory, and of those who for any other reason are regarded as not in accord with the ideals and standards which the College seeks to maintain.

#### HONORS IN A SPECIAL FIELD

Students who wish to become candidates for Honors may apply in the spring of their sophomore or junior year to the special committee appointed to consider these applications. All applications must be accompanied by recommendations from instructors.

A student electing to study for Honors will choose a Field of Special Study and will work in that field under the direction of one or more of the instructors concerned who will advise her on the possible development of her field and will guide her in the carrying on of independent work within it.

A candidate for Honors in a Special Field must take all the prescribed work, and a minimum of twenty-one hours in the chosen field. This field includes work in the major department and allied courses, and with the approval of the major department directing the work may include three hours of directed study independent of scheduled courses in the junior year and three hours in the senior year. The able student is thus led to form habits of investigation in a manner to assist her in advanced study.

Admission to Honors in a Special Field will be confined to candidates whose scholarship, maturity, and previous range of acquirement justify exceptional concentration. The work in the Field of Special Study for such a candidate will be subject to the following tests:

1. In general, the regular tests of the courses in the Field of Special Study must be taken.

2. A comprehensive examination must be taken in the student's field at the close of the senior year. This examination will take the place of the general examination required for seniors and will be in part or wholly oral.

#### JUNIOR YEAR ABROAD

A group of Wellesley students have each year for a number of years spent their junior year in study at some place other than Wellesley College itself. Students going to France join a group directed by the University of Delaware; those going to Germany are enrolled as members of the "Junior Year in Munich." Information about study in Italy may be obtained from the chairman of the Italian department; and information about the study of Spanish in Mexico from the chairman of the Spanish department.

Students who wish to have their plans for work in these countries approved are expected to have good health and nervous stability, a good record as citizens of the college community, and a thoroughly satisfactory academic record as shown by their grades both in courses in the language of the country to which they are going and in other courses.

Wellesley College makes no definite plans for junior year work which may be done at institutions in other countries than those mentioned above. An individual student with a good record may, however, present a plan for a year of work at some other college or university abroad (or in the United States) and, if her plan is approved by the Advanced Standing Committee, she will be given the appropriate transfer credits when the work of the year is satisfactorily completed and official records upon it have been submitted to the College.

#### GENERAL INSTRUCTIONS FOR SELECTING COURSES

The program in the freshman year is as follows:

English Composition 101 . . . . .	3 hours
Hygiene 120 . . . . .	1 hour
Hygiene 121 (practical work 2 hours) . . . . .	½ hour
Electives, 4 three-hour courses . . . . .	12 hours
<hr/>	
Total . . . . .	16½ hours

The courses must be chosen in accordance with the prerequisites given in the department statements from the list of courses named below, with the provision that one course must be chosen from each of two of the three groups (see below, and also page 42), and with the advice that the choice should not include two beginning courses in modern language.

#### ELECTIVE COURSES OPEN TO FRESHMEN, ARRANGED BY GROUPS

*Group I.* Art 101, 102, 103,\* English Literature 101, 103, French 101, 102, 103, 104, 201, 202, 208, German 101, 102, 104, Greek 101, 201, 202, 205, Italian 101, 102, Latin 101, 103, 104, 105, 106, 107, Musical Theory 101, 102, 201, 203, 208, Spanish 101, 102, 104, Speech 101, 104, 105.

*Group II.* Economics 101\*, History 101, 102, Political Science 104\*, Philosophy 102\*, 107\*, 108\*, Psychology 101\*, 103\*.

*Group III.* Astronomy 101, Botany 101, Chemistry 101, 103, Geology 101, Mathematics 101, 102, 106, 107, Physics 101, 102, 104, 203, 207, Zoölogy 101.

By special permission a student who wishes to carry only fourteen and a half hours in her freshman year may take the one-hour French course 202, or Italian 102, or the required one-hour course in Speech if she has not elected the three-hour course in Speech.

If 16½ hours are satisfactorily completed in the freshman year, the normal program for the remaining years would be as follows:

Sophomore year . . . . .	16½ hours
Junior year . . . . .	15 "
Senior year . . . . .	12 "

If 16½ hours are not completed in both the freshman and sophomore years, it will be necessary for a student to attend summer school or to carry more hours in the junior and senior years than specified above, subject to the usual regulations.

Elective courses must be chosen with great care so that changes will not be necessary. Students are held responsible for observing the requirements for the degree and the proper sequence of courses.

Students, except entering freshmen, are required to choose in May their electives for the year following. All requests for changes of

\* Requires special permission of Dean of Freshmen.

elective courses should be sent in time to reach the College before September 15th.

#### PRE-PROFESSIONAL COURSES

Students who plan to apply for admission to professional schools after leaving Wellesley College should consult their class deans about appropriate electives early in the course.

Each student who is planning to study medicine is advised to confer with her class dean before the beginning of her sophomore year. Entering students are advised to elect two pre-medical sciences in the freshman year. In general, requirements for admission to medical schools of Class A can be met by nine hours in Chemistry and six hours in Physics and Zoölogy respectively, but each student is advised to study carefully the requirements for the particular school which she has chosen. Attention is called to the fact that twelve hours are required as a basis for the general examination in any department. It is, however, possible to fulfill the minimum requirement for medical schools, and to take the general examination in an entirely different field.

Students planning to prepare for work in hospital or public health laboratories should begin both Chemistry and Zoölogy in their freshman year in order to have the necessary foundation for advanced courses. The departments of Botany, Chemistry, and Zoölogy should be consulted concerning combinations of courses in later years of the college course.

#### REQUIREMENTS FOR THE M.A. AND M.S. DEGREES

Wellesley College offers graduate work leading to the degrees of Master of Arts, and Master of Science in Hygiene and Physical Education. The work required of a candidate is considered to be the equivalent of twelve hours of college work. In general, a candidate is required to work in one department. The program includes no fewer than two full courses of Grade III or their equivalents, and may include a thesis embodying the results of original research, or a report or reports based on independent work. A candidate for either degree is required to have a working knowledge of either French or German, to be tested by examination *at entrance*. Individual departments may require a second language. At least one year of graduate study is required of all candidates, but more time may be needed for the completion of the work. One year *in residence* is required of all candidates except graduates of Wellesley College who have done the work at some institution which does not grant a Master's degree to women.

Information regarding requirements for admission, theses, final examinations, etc., will be found in the Graduate Circular which will be sent on application to the Dean of Graduate Students.

## COURSES OF INSTRUCTION

1938-39

The following courses of instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. Grade I courses are numbered 101, etc.; grade II courses 201, etc.; grade III courses 301, etc.

Courses which do not continue throughout the year are indicated by the number in parentheses which corresponds to the semester in which the course is given.

## ART

*Professor:* SIR ARPIE DER NERSESSIAN, DOCTEUR ÈS LETTRES (Chairman)  
DIRECTOR OF THE ART MUSEUM.

*Associate Professor:* WILLIAM ALEXANDER CAMPBELL,<sup>3</sup> M.F.A.

*Assistant Professors:* LAURINE MACK BONGIORNO, PH.D.

BERNARD CHAPMAN HEYL,<sup>2</sup> M.F.A.

AGNES ANNE ABBOT.

THOMAS BUCKLAND JEFFERY, DIPLO. OXON., M.F.A.

*Instructors:* ADELE DE LA BARRE ROBINSON, B.A., B.DES.

EDDA KREINER, M.A.

ARNOLD GEISSBUHLER.

SAMUEL MAGEF GREEN,<sup>5</sup> B.A.

Cataloguer: EDITH MOORE NAYLOR, M.A.

## ART MUSEUM

*Secretary:* CELIA HOWARD HERSEY, B.A.

*Assistant:* ALICE CHURCHILL MOORE.

## HISTORY OF ART

Certain courses in the history of art include laboratory work in drawing, painting, and modeling, in order to develop observation and increase appreciation of aesthetic values. This laboratory work requires no artistic aptitude, and is recommended to all who wish to make a serious study of art. On the other hand, work in the laboratory will be adapted to those students who have had previous training in art. For those who do not wish to try the laboratory method, other courses are offered.

## 101. INTRODUCTORY COURSE: ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART.

This course, though planned to lay foundations for further study of the history of art and leading directly to course 205, is complete in itself, having for its theme classic art, its inheritances and its part in later Italian art. First semester: Greek art, its predecessors in Egypt, Mesopotamia and Aegean lands, and the art of pagan Rome. Second semester: The art of the Italian Renaissance with introductory studies in Early Christian and Byzantine art. The laboratory work includes drawing, modeling, and water color.

*Open to all students except those who have completed or are taking course 102, 213, or 215. Three hours a week for a year.*

MR. CAMPBELL, MRS. BONGIORNO, MRS. ROBINSON,  
MISS KREINER, MISS ABBOT, MRS. NAYLOR.

## 205. INTRODUCTORY COURSE: MEDIÆVAL, RENAISSANCE, AND MODERN ART.

First semester: Mediæval art, with emphasis on Romanesque and Gothic

<sup>2</sup> Absent on leave for the first semester.

<sup>3</sup> Absent on leave for the second semester.

<sup>4</sup> Appointed for the second semester only.

architecture. Second semester: Northern painting of the XV and XVI centuries and European art from the XVII century to the present day, with emphasis on painting. The laboratory work includes modeling and oil painting.

*Open to students who have completed course 101 or an equivalent. Not open to students who have completed or are taking course 214 or 216. Three hours a week for a year.*

MISS DER NERSESSIAN, MR. JEFFERY, MR. HEYL,  
MRS. ROBINSON, MISS KREINER, MRS. NAYLOR.

**102. ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART.**

The ground covered is in general the same as in course 101, but studies in the technique of drawing, modeling, and water color are not included.

*Open to freshmen, sophomores, juniors, and by special permission to seniors. Not open to students who have completed or are taking course 101, 213, or 215. This course may be offered as prerequisite for course 205 if supplemented by course 104 or an equivalent. Three hours a week for a year.*

MRS. BONGIORNO, MRS. ROBINSON.

**207 (1). ART OF THE FAR EAST.**

The course will include a study of the art of India, China, and Japan, with particular emphasis on the cultures of the T'ang, Sung, and Ming Dynasties.

*Open to juniors and seniors without prerequisite. Three hours a week for the first semester.*

MR. CAMPBELL.

**209 (1). ART OF THE ROMAN EMPIRE. (Not offered in 1938-39.)**

A study of the major monuments of architecture, sculpture, and painting throughout the Roman Empire from the formation of the Roman style to the beginning of the Byzantine. Laboratory work is not included.

*Open to sophomores, juniors, and seniors who have completed course 101, 102, or 106; or to juniors and seniors who have completed History 204 or a grade II course in Latin. Three hours a week for the first semester.*

MR. CAMPBELL.

**211 (2). MOSLEM ART. (Not offered in 1938-39.)**

A study of the architecture, sculpture, painting, and minor arts of the Moslem people, beginning with the time of the Khalifs of Damascus and of Bagdad, and continuing to the XVIII century. Monuments of Syria, Asia Minor, Persia, North Africa, Spain, and Turkey will be considered, with special emphasis on the decorative arts. Laboratory work is not included.

*Open to juniors and seniors without prerequisite. Three hours a week for the second semester.*

MISS DER NERSESSIAN.

**212 (2). SPANISH ART.**

A study of the architecture, sculpture, painting, and minor arts of Spain from the period of classical influence to the present day. Architecture and painting will be emphasized and special attention given to the great painters of the later period: El Greco, Velasquez, Ribera, Zurbaran, and Goya. The art will be related to the cultural background of the different periods. Laboratory work is not included.

*Open to juniors and seniors without prerequisite. Three hours a week for the second semester.*

MR. HEYL.

## 213 (1). ANCIENT ART.

This course will deal with the art and architecture of the ancient world, emphasizing Greece, with the purpose of developing an ability to analyze sculptural and architectural style.

*Open to juniors and seniors who have not taken course 101, 102, or 318. Three hours a week for the first semester.* MR. CAMPBELL.

## 214 (2). MEDIEVAL ART.

A study of the mediæval period, its background of late classical and barbarian art and the development through the Romanesque and Gothic periods, emphasizing French architecture and sculpture.

*Open to juniors and seniors who have not taken course 205. Three hours a week for the second semester.* MR. JEFFERY.

## 215 (1). RENAISSANCE ART.

The art of the Italian Renaissance, with emphasis on painting.

*Open to juniors and seniors who have not taken course 101 or 102. Three hours a week for the first semester.* MR. JEFFERY.

## 216 (2). POST-RENAISSANCE AND MODERN ART.

A study of European art from the beginning of the XVII century to the present day.

*Open to juniors and seniors who have not taken course 205. Three hours a week for the second semester.* MR. JEFFERY.

## 302 (1). FLORENTINE AND UMBRIAN PAINTING OF THE RENAISSANCE.

Beginning with Cimabue and Giotto in the late XIII century and culminating with Michelangelo and Raphael in the XVI century, this course traces the development of Florentine and Umbrian painting of the Renaissance and relates this art to the general cultural background of the period. Problems connected with Giotto, Masaccio, Leonardo, and Michelangelo will be studied.

*Open to juniors and seniors who have completed or are taking 205. Three hours a week for the first semester.* MRS. BONGIORNO.

## 303 (2). RENAISSANCE PAINTING IN NORTH ITALY.

The development of painting in North Italy is traced from the XIV through the XVI century. Venetian painting is particularly emphasized, but attention is given also to other centres of painting in North Italy such as Padua, Parma, Ferrara, Bologna, Milan, and Verona.

*Open to students who have completed course 302. Three hours a week for the second semester.* MR. HEYL.

## 304 (1). THE ARCHITECTURE OF THE RENAISSANCE.

The period considered extends from the dissolution of the mediæval styles to the appearance of revival styles in the XVIII century with emphasis on Italy and France. The student is given a variety of approaches to the many aspects of architecture in the lectures and in the assignment of problems. These approaches consider architecture as building, with problems of stability and permanence of structure, as an expression of a certain culture to which they are

related, and as products of æsthetic theories expounded in the written works of architects of the period. Laboratory work is not included.

*Open to juniors and seniors who have completed course 205. Three hours a week for the first semester.* MR. JEFFERY.

**305 (2). MODERN PAINTING.**

Emphasis will be placed on the development of French painting from the XVII century to the present day, as a background for the study of contemporary movements in different countries. Practical experiments in composition, form, and color will be used as a basis for the study of modern characteristics.

*Open to seniors who have completed course 205, and to juniors who have completed course 205 and have taken or are taking course 303, 311, or 313. Three hours a week for the second semester.* MISS KREINER.

**306 (2). ENGRAVING AND ETCHING FROM THE RENAISSANCE TO THE PRESENT TIME.**

A study of the rise and development of engraving and etching including comparisons with the allied arts of woodcutting, mezzotinting, and lithographing, and a brief study of technical processes. Frequent visits to the Boston and Fogg museums will be required.

*Open to juniors and seniors who have completed or are taking course 205. Three hours a week for the second semester.* MRS. BONGIORNO, MR. GREEN.

**307 (1). STUDIES IN MEDIÆVAL ART.**

Problems in style and technique of mediæval fresco, tempera, and manuscript illumination, involving the study of Italian miniatures, panels, and frescoes of the Middle Ages.

*Open to juniors and seniors who have completed course 205. Three hours a week for the first semester.* MISS ABBOT.

**309 (2). MODERN ARCHITECTURE.**

The purpose of the course is to analyze and relate to contemporary thought the development and variety of architectural styles of the modern period, beginning with the revival styles of the XVIII century and concluding with the integration of the new materials and methods of construction in the architecture of the present day. The emphasis will be on American architecture, tracing its beginnings in the Colonial period. Laboratory work is not included.

*Open to juniors and seniors who have completed course 205. Three hours a week for the second semester.* MR. JEFFERY.

**310. MEDIÆVAL, RENAISSANCE, AND MODERN SCULPTURE.**

A study of the blending of classic and barbarian inheritances in the Middle Ages, the emergence of the sculptural expression of the Renaissance, and analysis of some modern trends. The laboratory work includes modeling from life to develop a better understanding of the conventions of sculpture.

*Open to juniors and seniors who have completed course 205. Three hours a week for a year.* MISS DER NERSESSIAN, MRS. BONGIORNO.

## 311 (1). PAINTING OF NORTHERN EUROPE.

The period of study extends from about 1300 to 1600 in France, Germany, and the Low Countries, and includes the XVII century in Flanders and Holland.

*Open to juniors and seniors who have completed course 205. Three hours a week for the first semester.* MRS. BONGIORNO.

## 313 (1). ART OF THE SEVENTEENTH CENTURY. (Not offered in 1938-39.)

Architecture, sculpture, and painting of the XVII century are considered from three points of view: the rise and development of these arts, the iconography of the period, and the general principles underlying the baroque style. In architecture and sculpture, Italy will be emphasized, with Bernini as the leading figure; in painting the development in Italy will be traced and this painting related to the work of contemporary artists such as Poussin, Rubens, and Rembrandt. The art will be related to the cultural background of the period.

*Open to juniors and seniors who have completed course 205. Three hours a week for the first semester.* MR. HEYL.

## 314 (2). BYZANTINE ART.

Mosaics and paintings of Byzantine, Bulgarian, Serbian, and Russian churches from the VI to the XIV century. Problems in style and iconography with opportunities for independent work and comparative studies with Italian art

*Open to juniors and seniors who have completed course 205. Three hours a week for the second semester.* MISS DER NERSESSIAN.

## 318 (1). STUDIES IN EGYPTIAN, NEAR EASTERN, AND PREHELLENIC ART.

Life and thought in the Eastern Mediterranean, Mesopotamia, and Persia as expressed in their art. The contribution of recent excavations will be carefully considered. Laboratory work is not included.

*Open to juniors and seniors who have completed or are taking a grade II course in Art, Biblical History, Greek, Latin or History. Three hours a week for the first semester.* MISS DER NERSESSIAN.

## 320. GREEK SCULPTURE.

A study of Greek sculpture from the Archaic to the Græco-Roman period, supplemented by comparison with collateral material, such as Greek vase painting, to amplify the knowledge of style in different periods. Laboratory work will include drawing and modeling.

*Open to juniors and seniors who have completed or are taking course 205 or History 203 or a grade II course in Greek or Latin. Three hours a week for a year.*

MR. CAMPBELL, MISS DER NERSESSIAN.

## 324. STUDIES IN DOMESTIC ARCHITECTURE. (Not offered in 1938-39.)

A critical study of selected types of house design. This will include comparisons of one type in different countries, such as the half-timber house in England, France, and Germany; analysis of developments and interrelations, as in the Renaissance styles; and an investigation of the underlying principles of modern house building. Laboratory instruction in architectural sketching.

## 325 (2). CRITICAL STUDIES IN ART. (Not offered in 1938-39.)

This course will be concerned with the fundamental principles underlying

design, the development of form and movement in representative art, and of architectural forms and ornament in different periods and regions. Such general topics will be considered as: portraiture, treatment of space and of backgrounds, plastic and linear representation, the effect on a work of art of the artist's conception of his subject, limitations of material and of technical methods, reflections of cultural and political changes. Throughout the course, although the emphasis will be placed on direct study of works of art, the contribution of writers in each field will be evaluated. Some problems will be worked out in the laboratory.

*Open to seniors who have completed or are taking six hours of grade III or, by permission, to seniors who have completed twelve hours in art. Three hours a week for the second semester.*

#### 350. RESEARCH OR INDIVIDUAL STUDY.

Independent work on special problems under direction of one or more members of the department.

*Open by permission of the department to juniors and seniors who have completed or are taking a course of grade III. Three hours a week for a semester or for a year.*

#### STUDIO COURSES

Three hours of studio work may count toward the degree if one full course in the History of Art has been completed; and four and one-half to six hours after two full courses in the History of Art have been completed.

#### 103. STUDIO PRACTICE.

Modeling, drawing, sketching, and painting (oil and water-color).

*Open to sophomores, juniors, and seniors, and to approved freshmen who have studied art before entering college. Six periods of class instruction and three of studio practice counting three hours a week for a year. This course may count toward the degree after one full course in the History of Art has been completed.*

MISS ABBOT, MR. GEISBUHLER.

#### 104. LABORATORY.

This course includes elementary studies in drawing, modeling, and water color, and is planned for those who are conscious of no talent in practical art. It covers the same ground as the laboratory work of course 101 and should, therefore, be elected by students who have taken course 102 instead of course 101 and wish to major in art. Its purpose is to develop informed appreciation through practical study of the elements of the artist's technique, and to train students of the history of art in quick sketching and the use of color for recording observation.

*Open to sophomores, juniors, and seniors who have not taken course 101 or course 103. One period of class instruction and two of studio practice counting one hour a week for a year. This course may count toward the degree after one full course in the History of Art has been completed.*

MRS. ROBINSON.

#### 204 (1). DESIGN.

The organization of spatial and tonal factors studied by means of a series of problems which deal with the planning of decoration for important types of areas.

*Open by permission of the department to sophomores, juniors, and seniors who have completed course 101, 103, or 104. Six periods of class instruction and three of studio practice counting three hours a week for the first semester. This course may count toward the degree after two full courses in the History of Art have been completed.*

MISS ABBOT.

#### 208 (2). COMPOSITION.

Principles of design related to various types of composition, in conjunction with direct study from the human model, still life, or landscape. Problems may take the form of book illustration, painting and mural decoration, decorative sculpture, etc.

*Open to students who have completed course 204. Six periods of class instruction and three of studio practice counting three hours a week for the second semester. This course may count toward the degree after two full courses in the History of Art have been completed.*

MISS ABBOT.

#### DIRECTIONS FOR ELECTION

Courses 101 and 205, followed by grade III courses, form the usual sequence for a major in Art. Course 102 may be substituted for course 101 if supplemented by course 104. A reading knowledge of French or German is required of students majoring in art; under certain circumstances Greek, Italian, Latin, or Spanish may be substituted by permission of the department.

Students wishing to major in classical archaeology should take at least one college course in the Greek and Latin languages, and, in accordance with the chosen field, should elect some of the following courses: Greek 203, 204, 207; Latin 104, 303, 304, 306, 307; History 203, 204.

#### GENERAL EXAMINATION

The general examination will be in two parts, two hours in the morning (with slides or photographs) and two hours in the afternoon.

It will be designed to test:

- (1) Knowledge of outstanding examples from earliest times to the present day.
- (2) Understanding of the meaning of terms commonly used in the study of art.
- (3) A general comprehension of the relations of the different styles and periods.
- (4) Ability (a) to make use of visual material in presenting a subject; (b) to perceive the value of evidence; (c) to coördinate material and present it logically.

#### MUSEUM TRAINING COURSE

This course, open to graduates only, is not offered in 1938-39.

#### ASTRONOMY

<i>Professor:</i>	JOHN CHARLES DUNCAN, <sup>2</sup> PH.D. (Chairman)
<i>Assistant Professor:</i>	HELEN WALTER DODSON, PH.D.
<i>Instructor:</i>	SAMUEL LOTROP THORNDIKE, PH.D.
<i>Assistant:</i>	ELIZABETH ROBERTS CORNWALL, B.A.
<i>Custodian:</i>	JOCELYN RUTH GILL, <sup>4</sup> B.A.

#### 101. DESCRIPTIVE ASTRONOMY.

A general survey of the facts of Astronomy, of the methods by which they are

<sup>2</sup>Absent on leave for the first semester.

<sup>4</sup>Appointed for the first semester only.

obtained and of the theories that account for them; facts with which every educated person should be familiar in order to understand the astronomical allusions occurring in literature and to be alive to the beauty of the order that is about us.

*Open to all undergraduates. Two lecture appointments, one two-period laboratory appointment, and an average of one hour of evening observations, with an additional lecture appointment at certain seasons, counting three hours a week for a year.*

MR. DUNCAN, MISS DODSON, MR. THORNDIKE, MISS CORNWALL, MISS GILL.

206 (2). THE HISTORY OF ASTRONOMY.

Development of the science from ancient times to the present, with special emphasis on the period since Copernicus. Recitations, and reports by students.

*Open to students who have completed course 101. Three hours a week for the second semester.*

MR. THORNDIKE.

207 (1). PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on observation with the equatorial telescope and its attachments.

*Open to students who have completed course 101 or 102. Three hours a week for the first semester. This course involves both daytime and evening work at the Observatory.*

MISS DODSON, MISS CORNWALL.

208 (2). PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on the transit instrument and the determination of time, longitude, and latitude.

*Open to students who have completed course 101 or 102 and who have a knowledge of Trigonometry. Three hours a week for the second semester. This course involves both daytime and evening work at the Observatory.*

MR. DUNCAN, MISS CORNWALL.

300 (1). STELLAR ASTRONOMY.

Studies of the number, brightness, distribution, and motions of the stars; double and variable stars; structure of the Galaxy; extra-galactic systems.

*Open to juniors and seniors who have completed Astronomy 101 and who have a knowledge of Trigonometry. Three hours a week for the first semester.*

MISS DODSON.

301 (2). ASTROPHYSICS.

Astronomical spectroscopy; the laws of radiation; determination of radial velocities; physical properties and constitution of the stars.

*Open to students who have completed course 101 and Physics 301. Three hours a week for the second semester. When combined with Physics 301 it may be counted toward a major in Astronomy or Physics.*

MISS DODSON.

302. DETERMINATION OF ORBITS. (Not offered in 1938-39.)

Determination, from three observations, of the elliptic and parabolic orbits of bodies in the Solar System. Orbits of binary stars. Theory and practice.

*Open to students who have completed course 101, and who have a knowledge of Calculus. This course may be counted toward a major in either Astronomy or Mathematics. Three hours a week for a year.*

MR. DUNCAN.

## 303. CELESTIAL MECHANICS. (Not offered in 1938-39.)

The attraction of bodies of various forms under Newton's law of gravitation. The problems of two and of three bodies. Perturbations.

*Open to students who have completed Differential and Integral Calculus. Three hours a week for a year.* MR. DUNCAN.

## 304. ASTRONOMICAL SEMINAR. (Not offered in 1938-39.)

*Open to graduate students. Ordinarily, three hours a week for a year.*

MR. DUNCAN, MISS DODSON.

## 350. RESEARCH OR INDIVIDUAL STUDY.

Work under one or more members of the department on subjects to be determined by the interests and capabilities of the individual student. This course may be taken repeatedly.

*Open by permission of the department to graduates and other advanced students. Two or three hours a week for a semester, or one to three hours for a year. The amount of work contemplated must be indicated at the time of handing in electives.*

## DIRECTIONS FOR ELECTION

All students who desire a general knowledge of astronomy and of the universe around them as a part of their general education should elect course 101. Those for whom this course is insufficient but who would avoid technicalities may well continue with course 207 or course 206.

A major in astronomy should ordinarily include courses 101, 207, 208, 300, 301, and 302. This combination of courses demands as prerequisites two courses in mathematics and one and one-half courses in physics. Of the six languages listed for the language reading requirement (page 41), the department prefers (but does not insist upon) French or German.

Astronomy 301 may be counted toward a major in physics, and Astronomy 302 toward a major in mathematics.

## GENERAL EXAMINATION

The general examination in astronomy will be based upon the combination of courses which the student has taken as a major. A choice of questions will always be allowed. In addition to the written questions, there will be an opportunity for the student to show her familiarity with the use of astronomical instruments. No study during vacations is required.

BIBLICAL HISTORY, LITERATURE, AND  
INTERPRETATION

*Professors:* LOUISE PITTIBONE SMITH, PH.D.  
SEAL THOMPSON, M.A.

*Associate Professors:* MURIEL STREIBERT CURTIS, B.A., B.D. (Chairman)  
GORDON BOIT WILLMAN, TH.D.

*Assistant Professors:* KATY BOYD GEORGE, M.A.  
JOSEPH GARABED HAROUTUNIAN, B.D., PH.D.  
JAMES PHILIP HYATT, B.D., PH.D.

*Assistant:* DORIS LAURA FLIERL, M.A.

The requirement in Biblical History is met by course 104. Students with a knowledge of Greek may substitute course 210 for the second semester of 104.

## 104. STUDIES IN THE OLD AND NEW TESTAMENTS.

*First Semester: Selected Parts of the Old Testament. Aims: (1. Some comprehen-*

hension of the religion which prepared the way for Christianity and which is one of the principal influences that has shaped our civilization. (2) Familiarity with some of the prose and poetry of a great classic. (3) Some understanding of scholarly methods of handling Biblical material. (4) A perspective in religious thinking which may aid in building a foundation for the student's own religion.

*Second Semester:* A study of Jesus as he is presented in the first three gospels. The aim is to examine the environment in which he lived, to study the events of his life from the historical point of view, to understand his teaching, and to discover his abiding significance.

*Required of sophomores except as indicated above. Three hours a week for a year.*

MISS SMITH, MISS THOMPSON, MRS. CURTIS, MR. WELLMAN,  
MISS GEORGE, MR. HAROUTUNIAN, MR. HYATT.

**203. ELEMENTARY HEBREW.**

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the Old Testament.

*Open to juniors and seniors. Three hours a week for a year. MISS SMITH.*

**204 (1) or (2). THE BEGINNINGS OF CHRISTIANITY.**

This course is designed to enable those students who have already studied the Life of Jesus in course 104 to complete their study of the New Testament and to see the principles of Jesus at work as they came in contact with the life of the Graeco-Roman world. It deals with the rise and earliest development of the Christian religion. The New Testament forms the basis for this study, with emphasis upon the thought of Paul and of the Fourth Gospel.

*Open to students who have completed course 104 or 210. Three hours a week for a semester. Offered in both semesters. MISS THOMPSON.*

**206 (2). GREEK TESTAMENT. TEXT STUDY OF SEVERAL NEW TESTAMENT BOOKS. (Not offered in 1938-39.)**

The course will deal with the development of Paul's theology. Such topics as these will be discussed: Paul's theology as a Pharisee: his conception of God, sin, salvation; his experience of Christ; his later theology. Parts of the following books will be read in Greek: Acts, I and II Corinthians, Romans, Philippians, Galatians.

*Open to students who have completed course 210. Three hours a week for the second semester.*

**207. HISTORY OF RELIGIONS.**

The aim of this course is to study the history of religions from the earliest historical period through such leading religions of today as Hinduism, Buddhism, and Mohammedanism. The approach is from the historical standpoint and includes a study of comparative developments and values. Readings, discussions, special topics, and short papers.

*Open to juniors and seniors who have completed the required work in Biblical History. Three hours a week for a year. MR. WELLMAN.*

**208 (1). SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS.** (Not offered in 1938-39.)

A study of the attitudes of the Christian church toward social and political questions in certain periods of her history. Among the topics studied are the ethical aspects of the conflict between the Christian church and the Roman Empire, the results of the development of monasticism upon the ethical standards of the church, the social ethics of the great Protestant reformers. Emphasis will also be placed upon such modern movements as Christian socialism and the "social gospel."

*Open to students who have completed the required work in Biblical History and who have taken or are taking Economics 101 or History 102 or any other course in modern history. Three hours a week for the first semester.*

**210 (2). THE FIRST THREE GOSPELS IN GREEK.**

This course is planned for those students who, in fulfilling the Biblical History requirement, prefer to study the gospels in Greek rather than in English translation.

*Open to students who have completed the first semester of course 104 and have completed or are taking a grade II Greek course. Students choosing this way of fulfilling the requirement in Biblical History may postpone the work until their junior year without special permission. Three hours a week for the second semester.*

MISS GEORGE.

**211 (1). THE OLD AND NEW TESTAMENTS IN THE LIGHT OF ARCHAEOLOGY.**

The purpose of this course is to study the results of archaeology in their bearing upon Biblical history and religion. Emphasis is placed upon the value of archaeology in illustrating, testing, and making vivid the Biblical records. Primary attention is given to the discoveries in Palestine as portraying the life and customs of the people in that land, and the inscriptions of Palestine and surrounding countries which have significance for Biblical history are studied in translation.

*Open to juniors and seniors who have completed the required work in Biblical History. Three hours a week for the first semester.*

MR. HYATT.

**301. SEMINAR IN HISTORY OF RELIGION.**

This study consists of readings and discussions in the history of religions other than Judaism and Christianity. Each student will be expected to investigate and study some particular historical problem. Emphasis will be laid upon the historical method of study as well as upon an understanding of the characteristic development of the religion under attention. The course is given in one weekly appointment, possibly running into extra schedule hours.

*Open to approved seniors. Three hours a week for a year.*

MR. WELLMAN.

**302. INTERPRETATIONS OF CHRISTIANITY.**

The aim of this course is to study the varying conceptions of the essentials of Christianity as formulated in some of the most important periods of the history of the church; to consider these conceptions in their relations to the religion of the New Testament and to the religious thought of the present day. This

course will be given in one weekly appointment running into extra schedule hours.

*Open to approved seniors who have completed course 204 or 206. Three hours a week for a year.* MISS SMITH.

**303. SECOND YEAR HEBREW.**

*Open to students who have completed course 203. Three hours a week for a year.* MR. HYATT.

**305 (1) or (2). TRENDS IN CONTEMPORARY CHRISTIANITY.**

Studies of such developments as Anglo-Catholicism, fundamentalism and modernism, the crisis theology, the Oxford Groups movement, humanism, the social emphasis and the implications for religion of modern scientific concepts.

*Open to students who have completed or are taking course 204 or 206. Three hours a week for a semester. Offered in both semesters.* MR. HAROUTUNIAN.

**306 (2). FURTHER STUDIES OF THE OLD TESTAMENT.**

This course offers opportunity for more detailed work on selected portions of the Old Testament. Both content and emphasis (historical, literary, religious) are determined by the interests of the students. Special reports and papers on selected topics.

*Open to approved juniors and seniors who have taken or are taking a grade II course in the department. Required of those who major in the department. Three hours a week for the second semester.* MISS SMITH.

**350. RESEARCH OR INDIVIDUAL STUDY.**

On consultation with the department, qualified seniors or graduate students may arrange for directed study in elementary Assyrian, advanced Hebrew, Biblical study, or history of Christian thought.

*One to three hours a week for a year. The amount of work contemplated must be indicated at the time at which electives are due.*

The attention of students is called to the course in Religious Education, page 74, and the course in Group Leadership, page 107, as being of practical value to those especially interested in the work of this department.

**DIRECTIONS FOR ELECTION**

After finishing the required course a student desiring to major usually continues her work by courses 204 and 305 in her junior year. In either junior or senior year she may take 306 which is required for majors, 211 or 207. In the senior year course 302 is recommended. If 207 was not taken as a junior, course 301 is open. Students may choose 203 as juniors and continue Hebrew in course 303 instead of electing 302. Courses in other departments which may count toward a major in Biblical History are Education 204 and Philosophy 211.

**GENERAL EXAMINATION**

Students will be expected to show a knowledge of the Bible as a whole, especially as a record of religious thought and development, and to relate this knowledge to the material of other courses taken.

Such questions of minute detail concerning Biblical history, biography and

literature as might be included in term examinations will not appear, but it is to be expected that the student will show as basic to her understanding of religious developments:

1. A broad knowledge of the outlines of the political history involved.
2. A grasp of the principles, procedure and results of historical and literary criticism.
3. Such a knowledge of the content of the Bible as will make it possible for her to illustrate concretely her general statements.

## BOTANY

*Professors:* HOWARD EDWARD PULLING, PH.D.

LAETITIA MORRIS SNOW, PH.D.

Alice Maria Ottley, Ph.D.

CURATOR OF HERBARIUM.

MARY CAMPBELL BLISS, PH.D.

HELEN ISABEL DAVIS, B.A. (Chairman)

DIRECTOR OF BOTANIC GARDENS.

GRACE ELIZABETH HOWARD, PH.D.

ASSISTANT CURATOR OF HERBARIUM.

RUTH HUTCHINSON LINDSAY, PH.D.

THEODORE LINDSAY STEIGER, PH.D.

*Assistant Professor:* DELAPHINE GRACE ROSA, PH.D.

*Instructor:* MADELINE PALMER, M.A.

*Assistants:* MARJORIE CONSER STALLCUP, B.S.

LORA BOND, B.A.

*Secretary and Custodian:* MARION FRANCES FINLAY, B.A.

### 101. GENERAL BOTANY.

The chief objectives of this course are: to introduce students to the study of the principles upon which all life depends; to show them how plants play a part in the health, pleasure, and profit of man; to acquaint them with the origins and characteristics of the great groups of plants, which man everywhere uses or contends with; to afford them opportunity to become acquainted with the cultivation of plants in-doors and out-of-doors; and to help them learn how to obtain answers to their own questions by individual experimentation.

*Open to all undergraduates. Six periods a week, in general two of lecture and recitation and four of laboratory or greenhouse or field, counting three hours a week for a year.*

MISS OTTLEY, MISS BLISS, MISS HOWARD, MISS LINDSAY,

MR. STEIGER, MISS ROSA.

### 202 (1) or (2). PLANT BIOLOGY.

This course deals with the organization of plants and the effects of this organization on the relations of the individual with its environment. The discussion of these relations is based on the student's intellectual interests and experience, augmented by laboratory and greenhouse experiment, to aid her in learning to correlate knowledge and in securing a broad foundation for further study of biological principles and applications.

*Open to students who have completed course 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, three of lecture and three of discussion and laboratory, counting three hours a week for a semester; offered in both semesters.*

MR. PULLING.

## 204 (1) or (2). CULTIVATED PLANTS.

A study of garden plants—their identification and ornamental value, their culture requirements, methods of propagation, and the means of protecting them against pests and diseases. Lectures and supplementary reading summarize the scientific principles underlying these subjects; field trips and laboratory work in the gardens and greenhouses supply evidence of the way in which some of these principles work out in actual practice. This course is intended to furnish a background for work in home gardens and also to stimulate an interest in the educational and social value of gardening.

*Open to students who have completed course 101 or have had other preparation satisfactory to the department. Six periods a week, in general two of lecture and four of discussion, laboratory, greenhouse or field, counting three hours a week for a semester; offered in both semesters.*

MISS DAVIS.

## 205. BACTERIA IN RELATION TO DAILY LIFE.

A brief survey of the field of microbiology. Emphasis is placed upon the study of bacteria, molds, and yeasts in the home, with special reference to the preservation of foods and to general household sanitation. A less detailed study is made of the larger problems of micro-organisms in relation to agriculture and certain other industries, and to disease and public health.

*Open to students who have completed one year of college science. Lecture one hour a week, optional demonstration in laboratory one hour a week, counting one hour a week for a year.*

MISS SNOW, MISS ROSA.

## 206 (1) or (2). THE STRUCTURE OF PLANTS.

In this course a comparative study is made of the structure of ancient and present-day types of vascular plants from the standpoint of evolution. This study includes the origin and differentiation of the structural elements of the plant body and micro-chemical tests of the cell-wall membranes of young and of mature cells. Practice is given in preparing woody tissues for sectioning and in making permanent microscopical mounts.

*Open to students who have completed course 101 or its equivalent, and to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and recitation and four of laboratory, counting three hours a week for a semester; offered in both semesters.*

MISS BLISS.

## 302 (1). COMPARATIVE MORPHOLOGY OF THE FERNS, GYMNOSPERMS, AND ANGIOSPERMS. (Not offered in 1938-39.)

This course considers the origin, development, and structure of vascular plants from the standpoint of evolution. Special attention is given to tracing the steps in the development of vegetative and reproductive organs, and to a consideration of the homologies of sporogenous, reproductive, and embryological parts. Students will become acquainted with the technique of plant histology and embryology by preparing a considerable proportion of the microscopic slides used in the classroom. The course aims to give that broad grasp of the progressive development of plant life on the earth essential to the highest efficiency in teaching botany and to give equipment for independent research in the comparative morphology of plants.

*Open to juniors and seniors who have completed three year-hours of grade II in Botany. Six periods a week, in general three of lecture and discussion and three of laboratory, counting three hours a week for the first semester.*

**304 (2). PATHOLOGY OF THE HIGHER PLANTS.**

A general course on the diseases of plants. The structure, pathological processes and effects of representative fungi on plants of either economic or ornamental value are studied. A short time is devoted to a study of the methods used in cultivating fungi. Modern methods of combating plant diseases are briefly considered from the standpoint of the principles that underlie them. One or more trips are taken for observation of diseased plants in the field.

*Open to juniors and seniors who have completed three year-hours of grade II in Botany. Students who have had course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, in general two of lecture and discussion and four of laboratory and field, counting three hours a week for the second semester.*

Miss HOWARD.

**305 (2). ECOLOGY. (Not offered in 1938-39.)**

A study of plants in their natural environment. The purpose of the study is to determine why certain plants are found in meadow, forest, swamp, etc., and how they are fitted for their special places in nature. Wherever possible the history of the succession of plants occupying a given area and the probable future changes in the flora of the area will be determined.

*Open to juniors and seniors who have completed three year-hours of grade II in Botany. Students who have had course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and discussion and four of field and laboratory, counting three hours a week for the second semester.*

**306. PHYSIOLOGY.**

First the nature and behavior of living protoplasm, and the fundamental processes that determine the behavior of organisms are studied in the laboratory. Then, by laboratory and greenhouse experiments with many kinds of plants, the student is shown how these principles, which form the foundation of our understanding of growth and development, can be applied in further study and in controlling the behavior of individual plants and groups of plants.

*Open to juniors and seniors who have completed three year-hours of grade II in Botany and who have completed or are taking a year of either Chemistry or Physics. Students who have completed course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four of discussion and laboratory, counting three hours a week for a year.*

MR. PULLING.

**307. CYTOLOGY AND HEREDITY.**

Studies in the structure of the cell; the phenomena of cell division; the constitution of the reproductive cells with special reference to the theories of heredity and evolution. The classroom study of the problems of the transmission of characters from parent to offspring is supplemented by experimental studies, conducted by the students in the greenhouse, in the inheritance of color and other characters in *Petunia*. At the beginning of the year each student is assigned a

practical problem in plant breeding as a basis for the study of the behavior of pure lines in hybridization and the origin and transmission of characters.

*Open to seniors, and by permission of the department to juniors, who have completed three year-hours of grade II in Botany. Six periods a week, in general two of lecture and discussion and four of laboratory or greenhouse, counting three hours a week for a year.*

MISS LINDSAY.

### 308. GENERAL BACTERIOLOGY.

The course is designed to give the student as wide a knowledge as possible of the whole field of bacteriology. Practice in methods of making media, plating, making transfers, staining, etc., is given to develop technique essential for the study of bacteria and their activities. The work is arranged in problems such as bacteria in relation to (1) their environment, (2) food spoilage and preservation, (3) dairying, (4) soil fertility, (5) sewage disposal, (6) water supplies, and (7) disease. There will be three or four trips to observe the practical application of the principles considered in class.

*Open to juniors and seniors who have completed one year of Chemistry and either one year of Botany or Zoölogy, or a second year of Chemistry. Six periods a week, in general two of lecture and four of laboratory, counting three hours a week for a year.*

MISS SNOW, MISS ROSA.

### 309 (1). LANDSCAPE GARDENING.

This course continues the study of ornamental plants begun in course 204, placing special emphasis upon their use in landscape gardening. The fundamental principles of design, and the historical development of garden design are studied to furnish the background for an intelligent appreciation of present-day landscape architecture as a fine art. The laboratory practice gives training in developing landscape plans for small estates.

*Open to seniors who have completed three year-hours of grade II in Botany, including course 204. By special permission course 204 may be taken in conjunction with course 309. Six periods a week, in general two of lecture and four of discussion and practice in drafting-room and field, counting three hours a week for the first semester.*

MISS DAVIS.

### 310 (2). LANDSCAPE DESIGN.

This course continues the study of the principles of design with landscape materials introduced in course 309, and also includes a summary of the fundamentals of landscape construction. The problems of city planning are discussed, from the standpoint of æsthetic and recreational requirements. Trips are taken as often as possible for observation and study of actual examples of the art.

*Open to students who have completed course 309. Six periods a week, in general two of lecture and four of discussion and laboratory, counting three hours a week for the second semester.*

MISS DAVIS.

### 311. WORLD FLORAS.

This course attempts to give the student familiarity with individual species as members of the larger plant groups, to enable her to visualize the vegetation of the earth and to understand the conditions that have been operative in pro-

ducing the characteristic floras of today. This course should add interest to travel and make more evident the influence of climate and plants on human progress. Before the close of the first semester each student selects, in line with her major interest, a group or groups of plants for study during the remainder of the year. For example, she would choose certain group combinations for Landscape Gardening, others for Pathology, still others for general culture.

*Open to students who have taken course 101 or its equivalent, and have completed or are taking three year-hours of grade II in Botany; by permission of the department to seniors who have completed course 101. Six periods a week, in general two of lecture and discussion, and four of field, laboratory, or greenhouse study, counting three hours a week for a year.*

Miss OTTLEY, Miss HOWARD.

### 320. THEORETICAL PHYSIOLOGY.

The content of this course in any year depends upon the needs and interests of the students who elect it. The reading and discussions are concerned with the abstract and logical aspects of the subject; the methods by which research problems should be analyzed, the significance of explicit and implicit assumptions, the treatment of data, physiology as a field for deductive reasoning, etc.

*Open to graduate students only. Three hours a week for a year. MR. PULLING.*

### 322. BOTANICAL SEMINARS.

The work in the seminars listed below varies from year to year, depending on the botanical background of each student and on her plan for further study. A field of botanical science is scrutinized from the standpoints of modern achievement, method of investigation, and the theories and reasoning involved in reaching the present-day conclusions: (a) Anatomy; (b) Bacteriology; (c) Comparative Morphology; (d) Cytology; (e) Ecology; (f) Genetics; (g) Geographical Distribution; (h) History of Botany; (i) Pathology; (j) Physiology; (k) Plant Materials; (l) Taxonomy.

*Open to graduate students only. Three to six hours a week for a semester or a year.*

THE TEACHING STAFF.

### 350. RESEARCH OR INDIVIDUAL STUDY.

The study will be under the direction of an instructor in the field chosen and may combine reading and investigation in the laboratory or may be restricted to reading. The nature of the work will depend upon whether the student is a senior or a graduate student, and upon the field of interest.

*Open to graduate students and, by permission of the department, to approved seniors. One to three hours a week for a year or three hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.*

#### DIRECTIONS FOR ELECTION

The major is based on course 101 or on two of the following courses: 202, 204, 206.

Course 308 may form a part of a botany major that includes a year of grade III other than, or in addition to, courses 309-310 or 350.

Courses 309-310 may form a part of a botany major that includes a year of grade III other than, or in addition to, course 308.

Students interested in Public Health should include course 308 in their program.

Those students who are planning to continue their botanical work after graduation either along lines of teaching, research, agricultural and experiment station work, or various kinds of technical laboratory work, landscape gardening, horticulture, forestry, etc., should consult with the department regarding the appropriate sequence of courses.

The department will accept a reading knowledge of any of the languages prescribed by the college to fulfill its requirements, but of these it considers French, German, or Latin to be of special value.

#### GENERAL EXAMINATION

All members of the staff are glad to discuss methods of review with students and to suggest which of the references already assigned in the regular class work would be most valuable for further study in securing a surer grasp of the subject and a sense of the fundamental unity which underlies the various aspects of the plant sciences. No summer reading is required.

A sufficient number of questions will be given to provide a choice for every student, no matter what combination of courses she has made in her major.

Any group of courses accepted as a major in the department is considered equal to any other group, of the same number of hours, as preparation for the general examination. Students including courses 308 or 309 and 310 in their major will find it valuable to have as broad a background as possible in pure botany.

#### CHEMISTRY

*Professors:* HELEN SOMERSBY FRENCH,<sup>3</sup> PH.D.  
MARY AMERMAN GRIGGS, PH.D.

RUTH JOHNSTIN, PH.D. (Chairman)

*Associate Professor:* HELEN THAYER JONES, PH.D.

*Instructor:* CATHERINE ALSTON BRANCH, PH.D.

*Assistants:* DORIS MARGUERITE BABBRIDGE, B.A.

BONNIE ELIZABETH ELEDGE, B.A.

GENEVIEVE CORBETT, B.A.

SARAH ELLEN PURVIS, B.A.

*Custodian:* EMILY MAY HOPKINS, M.A.

#### 101. ELEMENTARY CHEMISTRY.

This course is for beginners in chemistry and is planned to give the fundamental laws and theories of chemistry, in connection with the study of the non-metals and a brief survey of the metals. Outside reading and reports thereon bring the student some knowledge of the applications of chemistry.

*Open to students who do not present chemistry for admission. Three periods of lecture and discussion and one three-period laboratory appointment a week, counting three hours a week for a year.*

MISS JOHNSTIN, MISS JONES, MISS WOODLAND,  
MISS BRANCH, MISS PURVIS, MISS CORBETT.

#### 103. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS.

This course is intended for students who have offered chemistry for entrance. In the first semester the preparatory work in chemistry is used as a basis for

<sup>3</sup> Absent on leave for the second semester.

acquiring a wider knowledge of general chemistry and for the study of chemical theories. In the second semester a study of solutions of electrolytes is presented and special application of the theory to analytical reactions is made both in lecture and laboratory.

*Open to students who have completed the admission requirement or its equivalent. Incoming freshmen may apply to the Dean of Freshmen, and other students to the chairman of the department, for an examination for exemption from the first semester of this course and admission to a year's work consisting of courses 201 and 202. Three periods of lecture and discussion with one three-period laboratory appointment a week for the first semester, and two periods of lecture with six periods of laboratory a week for the second semester, counting three hours a week for a year. The second semester may be taken separately by those who have completed course 101.*

MISS GRIGGS, MISS JONES, MISS BRANCH, MISS ELLEDGE, MISS CORBETT.

**201 (1). QUALITATIVE ANALYSIS.**

This course presents in lecture and in laboratory a thorough study of solutions of electrolytes, with special application to analytical reactions.

*Open to students who have completed course 101. Two periods of lecture and six periods of laboratory a week, counting three hours a week for the first semester.*

MISS GRIGGS, MISS BRANCH.

**202 (1) or (2). QUANTITATIVE ANALYSIS. First course.**

This course deals with some of the fundamental methods of gravimetric and volumetric analysis. A study is made of the theory of each method including the calculations. Laboratory technique is emphasized.

*Open to students who have completed course 103 or 201. One period of lecture, one period of discussion, and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters.*

MISS GRIGGS, MISS BRANCH.

**207 (2). QUANTITATIVE ANALYSIS. Second course. (Not given in 1938-39.)**

A continuation of course 202. In this course a study is made of supplementary quantitative methods, including some of the newer types.

*Open to students who have completed course 202. One period of lecture and six periods of laboratory a week, counting three hours a week for the second semester.*

MISS GRIGGS, MISS BRANCH.

**301. ORGANIC CHEMISTRY.**

A systematic study of both the aliphatic and aromatic series. The laboratory work introduces the student to the fundamental methods of preparation and purification of typical organic compounds.

*Open to students who have completed course 103 or 201 and, by special permission, to students who have completed course 101. Three periods of lecture and discussion and one three-period laboratory appointment a week, counting three hours a week for a year.*

MISS FRENCH, MISS JONES, MISS BABBIDGE.

**302 (1). QUALITATIVE ORGANIC ANALYSIS.**

This course presents a systematic treatment of qualitative analysis as applied to organic compounds. The last few weeks of the semester will include an individual problem for each student dealing with some topic of present interest, involving organic preparations, and leading to a final paper.

*Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and discussion, six to seven periods of laboratory a week, counting three hours a week for the first semester.*

MISS FRENCH.

303 (2). ADVANCED QUANTITATIVE ANALYSIS.

This course offers an opportunity for the study of some of the following more advanced methods of quantitative analysis: colorimetric and electrometric determination of hydrogen ion, including acid-base and oxidation-reduction titrations, conductimetric titrations, electrodeposition of metals, and the complete quantitative analysis of some more complex inorganic substances

*Open to juniors and seniors who have completed courses 202 and 301. One period of lecture and discussion and six periods of laboratory a week, counting three hours a week for the second semester.*

MISS GRIGGS, MISS BRANCH.

304 (1). CHEMISTRY OF FOOD AND NUTRITION.

A study of the composition of common food materials and their function in nutrition. Laboratory practice is given in standard methods of analysis of foods including grain products, carbohydrates, fats and oils, milk and milk products.

*Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and discussion and five periods of laboratory a week, counting three hours a week for the first semester.*

MISS JOHNSTIN.

305 (1). PHYSICAL CHEMISTRY.

This course traces historically, summarizes and applies to practical problems, the laws of matter in its various states of aggregation (including colloidal), and also the laws governing solutions, chemical equilibrium, and reaction velocity.

*Open to juniors and seniors who have completed course 202, have completed or are taking course 301, and have completed or are taking a year of college Physics. Three periods of lecture and discussion and one three-period laboratory appointment a week, counting three hours a week for the first semester.*

MISS FRENCH, MISS BRANCH.

306 (2). THEORETICAL CHEMISTRY. (Not given in 1938-39.)

This course discusses the modern theories of matter and energy, including especially atomic and molecular structure, and theories of valency. It will also include at least two of the following fields of chemistry: electrochemistry, thermochemistry, and photochemistry.

*Open to juniors and seniors who have completed course 305. Three periods of lecture and discussion a week, with approximately one three-period laboratory appointment each alternate week, counting three hours a week for the second semester.*

307 (2). ADVANCED INORGANIC CHEMISTRY.

A comprehensive survey of the different classes of inorganic substances and the modern theoretical interpretation of their interactions.

*Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Three periods of lecture and discussion a week, counting three hours a week for the second semester.*

MISS JONES.

**309 (2). PHYSIOLOGICAL CHEMISTRY.**

A study of the chemistry of the more important organs and tissues of the body and of the chemical changes involved in the digestion, assimilation and elimination of food constituents. The laboratory work includes a study of the methods of analysis generally employed in hospital practice.

*Open to juniors and seniors who have completed courses 202 and 301. Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and discussion and five periods of laboratory a week, counting three hours a week for the second semester.*

MISS JOHNSTIN.

**310 (1). QUANTITATIVE ORGANIC ANALYSIS INCLUDING MICROANALYSIS. (Not offered in 1938-39.)**

This course includes the classical methods of Liebig and of Dumas for the quantitative determination of carbon, hydrogen, and nitrogen in organic compounds; and also the newer methods of elementary micro-combustions.

*Open to seniors who have completed courses 202 and 301. Two periods of lecture and discussion, six to seven periods of laboratory a week, counting three hours a week for the first semester.*

MISS FRENCH.

**320. SEMINAR. (Not given in 1938-39.)**

Newer developments in chemistry will be considered with the historical background of each.

*Open to graduate students. This course usually meets every other week for two hours during the evening, counting one hour a week for a year.*

THE TEACHING STAFF.

**350. RESEARCH OR INDIVIDUAL STUDY.**

Each student electing this work will undertake an individual problem under the direction of the instructor in the field chosen. The work will include both laboratory work and reading.

*Open to graduate students and, by permission of the department, to undergraduates who have completed at least nine hours in the department. Three hours a week for a semester or for a year.*

**DIRECTIONS FOR ELECTION**

Members of the department will be glad to advise students concerning courses (in chemistry and in related departments) which would best prepare for teaching, for positions in analytical and research and industrial laboratories, for work as hospital laboratory technicians, for public health work, for nursing, or for graduate study.

For any major in Chemistry one of the following sequences of courses is essential: courses 101, 201, 202, and 301; or courses 103, 202, and 301. Any other courses in the department may be added to these to complete the twelve-hour major.

It is advisable that all students majoring in Chemistry should complete one year of college Physics, and acquire a reading knowledge of French and German before the senior year. They will be required to pass a reading knowledge examination in German, French, or Italian.

Students intending to go on to graduate work in Chemistry should include in

the major, course 305 and one year of college Mathematics, with some work in Calculus.

Pre-medical students are referred to the requirements as given on page 46.

For Hospital and Public Health work, students are advised to elect courses 101 and 201, or 103, 202, 301, 304 and 309.

Seniors electing Chemistry 304 and 309 may, upon the recommendation of this department, obtain special permission from the Zoölogy Department to take Physiology (Zoölogy 308) without prerequisite.

Students intending to use their Chemistry after graduation from Wellesley College will be recommended by the department only if they have completed at least nine hours of Chemistry.

#### GENERAL EXAMINATION

The aim of the general examination in Chemistry will be to test the student's knowledge of the fundamental principles and important facts of Chemistry, and her ability to correlate and apply this material.

#### ECONOMICS AND SOCIOLOGY

*Professors:* ELIZABETH DONNAN, B.A.

HENRY RAYMOND MUSSEY, PH.D.

LELAND HAMILTON JENKS, PH.D. (Chairman)

*Associate Professor:* LAWRENCE SMITH, M.A.

*Assistant Professors:* LUCY WINSOR KILLOUGH, PH.D.

MARY BOSWORTH TREUDLEY, PH.D.

*Instructor:* MARY SYDNEY BRANCH, M.A.

*Assistant:* OLIVE HUGHES RYAN, B.A.

#### 101. ECONOMIC PRINCIPLES AND PROBLEMS.

This course seeks to contribute to the understanding of contemporary life through a study of the economic order on which our present social and political system is built. It studies the growth of machine technique, corporate organization, mass production, and international trade, with the machinery of money and banking. It analyzes the price system under competition and monopoly. It considers briefly the causes and results of existing inequalities in the distribution of wealth, living standards as related to income, trade unions, trusts, unemployment, social legislation, and other proposed methods of economic reform. One field trip will be required.

*Open to sophomores, juniors, and seniors, and to freshmen by permission of the Dean of Freshmen. This course is prerequisite to later election for all majors in the department. Three hours a week for a year.*

MISS DONNAN, MR. MUSSEY, MR. SMITH,  
MRS. KILLOUGH, MISS TREUDLEY, MISS BRANCH.

#### 102 (1) or (2). SOCIAL ORGANIZATION.

This course is an introduction to the study of society from the cultural standpoint. It embraces an examination of fundamental factors in social behavior, and a survey of the main features and trends of contemporary social organization.

*Open to sophomores, juniors, and seniors. Three hours a week for a semester; offered in both semesters. This course, since it covers but one semester, may not be used for distribution without course 101.*

MR. JENKS, MISS TREUDLEY.

## 202. HISTORY OF SOCIAL INSTITUTIONS.

The first semester's work surveys the field of cultural anthropology. Behavior patterns characteristic of primitive tribes are studied and there is consideration of the processes involved in contact between civilizations. The second semester's work traces historical change in such institutional fields as the family, church, business enterprise, social classes, etc.

*Open to juniors and seniors who have completed or are taking course 102 and who have in addition completed six year hours of work to be chosen from the fields of economics, history or political science, and psychology. Three hours a week for a year. Students are permitted to count the first semester of course 202 as a semester course.*

MR. JENKS.

## 204 (2). ECONOMIC HISTORY OF THE UNITED STATES.

A study of our national development in its economic and social aspects, with special emphasis upon the struggle between agrarian and business interests, the growth of business combinations, and the development of government control of business.

*Open to sophomores, juniors, and seniors who have completed or are taking course 101. Three hours a week for the second semester.*

MISS DONNAN.

## 209 (1). ECONOMIC HISTORY OF ENGLAND.

This course attempts a comparison of economic and social life in England before and after the Industrial Revolution. Such topics as the manifestations of capitalism in the seventeenth and early eighteenth centuries, the effect of capitalism on the work of women, the struggle between landed interests and rising manufacturers over factory acts and corn laws, the vicissitudes of poor law legislation, and the increase in the concern of the government for the welfare of the individual are considered.

*Open to sophomores, juniors, and seniors who have completed or are taking course 101. Three hours a week for the first semester.*

MISS DONNAN.

## 210. FINANCIAL ORGANIZATION OF SOCIETY.

This course deals with money, credit, general price levels, and business cycles. It first emphasizes monetary standards and current monetary changes and problems. The work of commercial banks and the functioning of the Federal Reserve system are studied. Business cycles are dealt with historically and theoretically, and current recovery programs are analyzed.

*Open to students who have completed course 101. Three hours a week for a year.*

MR. SMITH.

## 301 (2). THEORIES OF SOCIAL RECONSTRUCTION.

A study of the theories of socialism, communism, and fascism, and of the ideas underlying present proposals for a reorganized capitalism in the United States. The various theories are analyzed critically, and their relations to contemporary labor movements and social policies are examined.

*Open to juniors and seniors who have completed course 308 or 316. Three hours a week for the second semester.*

MR. MUSSEY.

## 303 (2). SOCIAL WELFARE.

A study of the historical development of philanthropy and of present problems and practices in the field of social work.

*Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the second semester.*

MISS TREUDLEY.

## 304 (2). STANDARDS OF LIVING AND THEIR MAINTENANCE. (Not offered in 1938-39.)

A study of standards of living and their maintenance by governmental and non-governmental action, through such devices as social insurance and social services, minimum wage, public works, and public relief.

*Open to juniors and seniors who have completed course 101 and have completed or are taking any course of grade II in the department. Three hours a week for the second semester.*

MISS TREUDLEY.

## 305 (2). PUBLIC REGULATION OF BUSINESS.

The problems of regulation, especially in relation to capitalization and price control, that have arisen out of the development of railroads, public utilities, and industrial trusts in the United States; the practice of regulation of such industries; the newer demand for regulation by the wide application of public "economic planning."

*Open to juniors and seniors who have completed course 101 and have completed or are taking any course of grade II in the department. Three hours a week for the second semester.*

MR. MUSSEY.

## 306 (1). CORPORATIONS AND COMBINATIONS.

Corporate structure and operation. The market for corporate securities, including investment banking, other investment institutions, the stock exchange, government regulation of security issues and exchanges. Problems arising from the development of great corporations, both through concentration and combinations.

*Open to students who have completed course 204 or who have completed or are taking course 210. Three hours a week for the first semester.*

MR. SMITH.

## 308 (1). THE MODERN LABOR PROBLEM.

A study of the past and present relations of workers to property owners and the state, with special reference to British and American conditions. Trade unionism and other working-class movements are studied. The legal position of labor is examined in view of the labor policies of employers and the state. The present struggle for power over labor in American industries is surveyed.

*Open to juniors and seniors who have completed course 101 and have completed or are taking any course of grade II in the department. Three hours a week for the first semester.*

MR. MUSSEY.

## 310 (2). PUBLIC FINANCE.

A study of the principles and the practical problems of government expenditures and revenues. The social justification of public expenditures and the growth of expenditures resulting from war and from the modern increase of

government functions are considered. The theory and incidence of taxation and the chief taxes levied by the cities, states, and federal government are analyzed. The nature and importance of public debts and some economic aspects of public fiscal administration are examined.

*Open to juniors and seniors who have completed course 101 and have completed or are taking any course of grade II in the department. Three hours a week for the second semester.*

MRS. KILLOUGH.

**311 (1). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS.**

A study of statistical methods as used in economics and sociology. The technique of a statistical investigation is examined in detail with emphasis on methods of classification and presentation. Frequency distributions and simple correlation are studied and applied.

*Open to juniors and seniors who have completed or are taking a full course of grade II in the department. Three periods of lecture and recitation and three hours of laboratory a week, counting three hours a week for the first semester.*

MRS. KILLOUGH.

**312 (2). ADVANCED SOCIAL AND ECONOMIC STATISTICS.**

The study of economic and social statistics with emphasis on the analysis of time series. Some time is spent on probability theory and multiple and partial correlation. Consideration is given to the place of the quantitative method in the social sciences.

*Open to juniors and seniors who have completed courses 101 and 311. Three periods of lecture and recitation and three hours of laboratory a week, counting three hours a week for the second semester.*

MRS. KILLOUGH.

**313 (2). SEMINAR. SELECTED TOPICS IN ECONOMIC AND SOCIAL MOVEMENTS AND THEORIES. (Not given in 1938-39.)**

*Open to graduates and approved seniors who are taking a major in the department. Three hours a week for the second semester.*

THE TEACHING STAFF.

**314 (2). INTERNATIONAL TRADE AND INVESTMENT. (Not offered in 1938-39.)**

A study in modern political economy, examining the economic position of the United States in relation to other countries. It deals with theories of international trade and capital movements; national resources and trade; government control over commerce, especially tariffs and raw material control. Various aspects of economic nationalism are considered.

*Open to juniors and seniors who have completed course 101 and have completed or are taking course 210. Three hours a week for the second semester.*

MRS. KILLOUGH.

**316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT.**

This course deals with outstanding trends of thought from the Greeks to modern times, as reflected in the writings of such social and political philosophers as Plato, Aristotle, Augustine, Machiavelli, Locke, and Rousseau.

*Open to seniors who have completed or are taking courses 101, and 202 or 209-204, in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the first semester.*

MR. JENKS.

**317 (1). HISTORY OF ECONOMIC THOUGHT.**

A study of the development of economic thought with special emphasis on the

relation between economic conditions and economic thinking in the nineteenth century. After a brief review of Greek, Roman, and mediæval thought and some attention to the doctrines of the mercantilists and the physiocrats, the work of Adam Smith, Ricardo, Malthus, J. S. Mill, and the Austrians, is examined with more detail, and some consideration is given to the writings of nineteenth-century American economists.

*Open to seniors who have completed course 101 and a full course of grade II in the department. Three hours a week for the first semester.* MISS DONNAN.

**318 (2). MODERN ECONOMIC THOUGHT.** (Not given in 1938-39.)

A study of recent economic doctrine with special emphasis on those aspects which diverge from nineteenth-century theory, and some attention to the relation of economic science to other social sciences.

*Open to seniors who have completed course 317. Three hours a week for the second semester.* MISS DONNAN.

**319 (2). MODERN SOCIAL THOUGHT.**

A study of the principal trends of social and political thought manifested since the revolutionary period, especially in Great Britain and the United States.

*Open to seniors who have completed or are taking courses 101, and 202 or 209-204, in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the second semester.* MR. JENKS.

**320 (1). POPULATION PROBLEMS.**

A study of population theories beginning with Malthus, and of practical problems arising out of the increase, the distribution, and the movement of population.

*Open to juniors and seniors who have completed course 101 and have completed or are taking any course of grade II in the department. Three hours a week for the first semester.* MISS TREUDLEY.

**321 (1). THE ECONOMICS OF CONSUMPTION.**

This course deals with the place of the consumer in the economic order; the influence of consumers' choices, the marketing system, the effect of advertising on consumption, consumers' credit, family saving and investment, aid and regulation of consumption by government and other agencies.

*Open to juniors and seniors who have taken or are taking any grade II course in the department. Three hours a week for the first semester.* MISS BRANCH.

**322 (2). PROBLEMS OF THE FAMILY.**

This course considers the family as a functioning social group in the modern community; it includes the effect of social and economic change upon its structure and an analysis of family relationships.

*Open to seniors who have completed any grade II course in the department and to those who have had Psychology 207. Three hours a week for the second semester.* MISS BRANCH.

**350 (1). RESEARCH OR INDIVIDUAL STUDY.**

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading, to be tested by examination.

Students desiring to register for such a course must secure the approval of the chairman of the department in advance of the time at which electives are due. Three hours a week for the first semester.

Students majoring in this department are requested to take their language examination in French or German. Exceptions require the consent of the department.

For the course in Group Leadership, of special value to students interested in the practical application of economic and social study, see page 107.

#### GENERAL EXAMINATION

The aim of the general examination set by the Department of Economics and Sociology will be to present for analysis new problems, calling for an application of the principles and the body of factual material acquired by the student in those courses which have constituted her major in the department. In the same way that the examination at the end of each course attempts to test the student's power to reorganize and to correlate the material of the course and to bring it to bear upon a new situation, so the general examination will attempt to test that power with the larger body of material at the student's command as a result of all her work in the department.

### EDUCATION

*Associate Professors:* DOROTHY WARNER DENNIS, B.A., DIP.L.E.U.

ASSOCIATE PROFESSOR OF FRENCH

MURIEL STREIBERT CURTIS, B.A., B.D.

ASSOCIATE PROFESSOR OF BIBLICAL HISTORY

*Visiting Professors:* CHARLES SWAIN THOMAS,<sup>5</sup> M.A., LITT.D.

JOHN PILLEY, M.A. OXON. (Acting Chairman)

*Assistant Professor:* ALICE BURT NICHOLS, B.A., ED.M. (Secretary)

*Lecturers:* ABIGAIL ADAMS ELIOT, B.A., ED.D.

EUGENE RANDOLPH SMITH,<sup>4</sup> M.A., PED.D.

RACHEL LOUISE HARDWICK,<sup>4</sup> M.D.

ANNA ALDEN KINGMAN,<sup>6</sup> B.A., ED.M.

FREDERICK BARTON DAVIS, ED.M.

*Assistants:* GRACE ALLERTON ANDREWS, M.A.

FRANCES DUNBAR NICHOLS, M.A.

MARJORIE ISABELLE GREENE, M.A.

### ANNE L. PAGE MEMORIAL SCHOOL

(AGES 4 TO 9)

*Director:* MATILDA REMY, B.S. IN ED.

*Staff:* ANNA ALDEN KINGMAN, B.A., ED.M.

AUGUSTA MELVIN HALL, B.A.

BARBARA SHEPHERD VARNEY, B.A.

RUTH ANN SLEEPER, B.S., ED.M.

### WELLESLEY NURSERY SCHOOL

(AGES 2 TO 4)

*Director:* LORNA LOUGEY CRITTENDEN, B.A.

The Department of Education offers both undergraduate and graduate courses. Nine hours of work may be counted toward the B.A. degree. Full work for the M.A. degree is offered.

### 201. MODERN EDUCATION: A STUDY OF THE PRINCIPLES OF EDUCATION, AND OF THE APPLICATIONS OF PSYCHOLOGY TO EDUCATION.

(See note IV, page 77.) This course is organized to meet the needs not only of

<sup>5</sup>Appointed for the first semester only.

<sup>6</sup>Appointed for the second semester only.

prospective teachers but also of all who are interested in the intelligent direction of education in the home and in the community. The work of the course is illustrated throughout the year by visits to assigned schools for the observation of children and of classroom practice, and by examples of school work. A time allowance is made for the inspection of schools. The number of visits will not exceed eight for the year.

*Open to juniors and seniors who have completed or who are taking Psychology 101. Three hours a week for a year.* MR. PILLEY.

202 (1). HISTORY OF EDUCATION: WESTERN EUROPE. (Not offered in 1938-39.)

Like course 201 this course is intended not only for prospective teachers, but also for all students who are interested in the intelligent discussion of educational affairs. The greater part of the semester is devoted to a study of personalities, problems, and policies in the development of public education in England, France, and Germany in the nineteenth and twentieth centuries. The course will begin with a brief survey of the historic foundations of modern education in Greek, Roman, and early Christian culture and in the rise of universities, the revival of classical learning and the Reformation. The lectures are illustrated by manuscripts, lantern slides, and translations from the documents.

*Open to juniors and seniors. Graduates may elect this course under certain conditions. Three hours a week for the first semester.*

203 (2). HISTORY OF EDUCATION: THE UNITED STATES. (Not offered in 1938-39.)

This course may be taken as an independent unit, or it may follow course 202. The topics include a study of European influences in American education; the colonial beginnings of education in Virginia, Pennsylvania, New York, and New England; national and state policies concerning education, 1776-1860; educational leaders: Thomas Jefferson, Emma Willard, Mary Lyon, Horace Mann, Henry Barnard and others; the expansion and reorganizations of public and private education since the Civil War; educational problems of today. The course is illustrated throughout by a wealth of original documents.

*Open to juniors and seniors. Graduates may elect this course under certain conditions. Three hours a week for the second semester.*

204. RELIGIOUS EDUCATION.

This course is meant for those who in their own homes, in Church schools or Vacation schools may be responsible for the guidance of children in religious thinking and experience, in development of character and sense of social responsibility. Suitable aims and methods in work with children of different ages are considered and appropriate use of Biblical and other material. An attempt is made throughout to relate the specific problems of religious education to the larger problems of the world in which we live.

*Open to students who have completed the required work in Biblical History. One hour a week for a year.* MRS. CURTIS.

301. SECONDARY EDUCATION.

The principles and methods of secondary education, with special reference to the high schools and junior high schools of the United States. A study will be made of approved methods of teaching English, foreign languages, sciences,

mathematics, and history in high schools. Opportunity will be given for observation of the work of specially successful high school teachers in the subject which the student expects to teach. In connection with this course a semester of practice teaching is arranged for graduate students. Practice in teaching is not open to undergraduates.

*Open by permission to seniors who have completed a full course in Education, and to graduates. Three hours a week for a year. Students who take course 204 or 303 are permitted to count the first semester of course 301 as a semester course.*

MR. THOMAS, MRS. A. B. NICHOLS, AND LECTURERS.

**303 (2). PRINCIPLES AND METHODS OF TEACHING FRENCH IN SECONDARY SCHOOLS.**

The aim of this course is to teach the students how to impart to their pupils, in the shortest possible time, a speaking, understanding, reading, and writing knowledge of French. The instructor will deal with the several aspects of modern language work, such as the teaching of vocabulary, of grammar, of composition and of translation; the selection and use of books, the equipment of the teacher and of her department in the high school.

*Open to seniors who have completed Education 201 and who are taking course 301, 302, 305, 306 or 307 in the Department of French. Students who elect this course may also elect the first semester of Education 301 as a semester course. This course may be counted toward a major in French. Three hours a week for the second semester.*

MISS DENNIS.

**320 (1). EDUCATIONAL TESTS, MEASUREMENTS AND STATISTICS.**

The standardized tests now available for college preparatory and other secondary school studies will be examined in detail in this course. The uses, advantages, misuses and disadvantages of such tests will be considered. Students will be given practice in constructing tests, in the technique of testing, and in the arithmetical interpretation of results.

*Open to seniors who have completed one full course in Education. Three hours a week for the first semester.*

MR. DAVIS.

**321 (2). PROBLEMS IN THE APPLICATION OF PSYCHOLOGY TO EDUCATION.**

The subject matter of this course will vary from year to year in accordance with the equipment and needs of students. The methods of educational investigation and experimentation will be considered, and each student will be given an opportunity for intensive work in a problem in her field of interest.

*Open by permission to seniors who have completed a full course in Education and who have an adequate equipment in Psychology, and to graduates who have completed two full courses in Education and who have an adequate equipment in Psychology. Three hours a week for the second semester.*

MR. DAVIS.

**322.‡ THE EDUCATION OF YOUNG CHILDREN: HISTORY, THEORY, PROBLEMS.**

This course deals with nursery, kindergarten, and primary education. The topics include (1) a review of the origins and historical development of education for children under nine years of age; (2) a detailed critical study of current theories of the nursery school, the kindergarten, and the primary school; (3) the

‡ See notice on page 77.

child in relation to the home, the community, and the school; (4) current problems in child study.

*Open to seniors who have completed Psychology 101, or an equivalent, and one full course in Education. Open also to graduates (see course 323). Three hours a week for a year.* MISS ELIOT, DR. HARDWICK, MISS KINGMAN.

**323.‡ THE EDUCATION OF YOUNG CHILDREN: MATERIALS AND METHODS.**

The practical application of the theory given in course 322. This course includes on the one hand a detailed study of the methods and materials of education for children under nine; and on the other extensive observation with practice in teaching. Observation and practice are given in the Wellesley Nursery School and the Anne L. Page Memorial, both situated on the Wellesley College campus. The schools of Boston and vicinity furnish a rich field for further study. A detailed study of the curriculum, activities, materials, and equipment is a part of the course.

*Open to graduates only. This course presupposes or is to be taken with course 322. (Graduates must ordinarily take courses 322 and 323 together.) Three hours a week for a year.*

**324. ELEMENTARY EDUCATION: HISTORY, THEORY, PRACTICE, AND PROBLEMS.**  
(Not offered in 1938-39.)

This course includes a detailed study of present elementary school practice, a critical discussion of the principles which underlie that practice, and the investigation of selected problems in elementary education.

*Open to graduates who have completed Psychology 101, or an equivalent, and two full courses in Education. Three hours a week for a year.*

**325. HISTORY OF EDUCATION.** (Not offered in 1938-39.)

This course covers the same periods in the history of education as course 202, but with additional reading, critical examination of the materials, and a detailed study of one or more topics from the sources. It is intended for graduate students who have had no general course in the history of education.

*Open to graduates only. Three hours a week for a year.*

**350. RESEARCH OR INDIVIDUAL STUDY.**

The subject will be determined in each case by the preparation and interests of the individual student. The work will be under direction of one or more members of the department.

*Open by permission of the department to graduate students. Three hours a week for a semester or for a year.*

Attention is called to the course in Group Leadership, page 107, of especial value to students taking Education. It is not counted as a course in Education.

**DIRECTIONS FOR ELECTION**

I. Students who intend to teach should (in their sophomore year if possible) consult a member of the Department of Education concerning city and state requirements for the certificate to teach. In a majority of states these require-

‡ See notice on page 77.

ments include from six to seven and one-half hours in Education; a few states require nine hours in this subject. Plans should be made in the sophomore year for completion of the necessary courses in Education, which must be taken in the junior and senior years.

II. In general, the department recommends the following arrangements: (1) For a six-hour elective in Education choose three hours in the junior, and three hours in the senior year. (2) For a seven and one-half hour elective, add to the above one and one-half hours in any semester of the junior and senior years. (3) For a nine-hour elective choose six hours in one year and three in the other, or four and one-half hours in each year.

III. (1) Prospective high school teachers should choose from the following courses: 201, 202, 301, 303 (for teachers of French only), 320, 321.

(2) Prospective kindergartners or directors of nursery schools should include course 322 in place of course 301 or 303.

(3) Students who are interested in religious education should include course 204 in their list. It is not credited toward state or city requirements for certificates for teachers in public schools.

IV. Students who have completed the prerequisite in Psychology (course 101), and who have completed Education 201, shall be entitled to credit for Education 201 on application blanks for state teachers' certificates, as follows:

3 semester hours in Principles of Education (or Principles of Teaching or Introduction to Education).

3 semester hours in Educational Psychology.

#### THE THEORY AND PRACTICE OF PRE-SCHOOL (KINDERGARTEN, NURSERY SCHOOL) EDUCATION

A five-year course, leading to the degrees of B.A. and M.A., may be planned by students who intend to specialize during the fifth year in the field of pre-school (kindergarten, nursery school) education.

The Department of Education offers exceptional facilities for this study. The Anne L. Page Memorial and the Wellesley Nursery School on the college campus and the Ruggles Street Nursery School in Boston give abundant opportunity for observation and practice in the nursery school, the kindergarten, and the first grade. Three lecturers of the department (Miss Eliot, Miss Kingman, and Dr. Hardwick) provide the necessary instruction in connection therewith. Various clinics and special classes for children in Boston and vicinity are also open to student observers. Related courses in other departments of the college may be chosen to form, with the courses in Education, a unified program of study.

The following suggestions are not intended to debar juniors and seniors who completed the prerequisites announced for the various courses in Education from entering upon graduate study in this field. Such students should consult the chairman of the department as to the best arrangement of their remaining undergraduate work.

Freshmen and sophomores, however, who look forward to service in the field of pre-school education may profitably include the following courses in their undergraduate years:

1. *Sophomore Year:* Complete course 101 in Psychology.
2. *Junior Year:* Elect Education 201 or 202 and Psychology 207 (or 101, if not taken in the sophomore year).
3. *Senior Year:* Elect Education 322 and Psychology 310 (or 207, if not taken in the junior year).
4. Elective courses in the Sciences, Literature, Art, and Music, and any major subject, are useful as a preparation for graduate study of the theory and practice of pre-school education.
5. The studies of the graduate year will be adapted to the needs of each student. In general, they will include Education 323 (and 322, if this course is not taken in the senior year) and such other courses or independent work as the circumstances require.

The general requirements for the M.A. degree are stated in the Graduate Circular. This should be consulted in all cases. It may be obtained from the Secretary to the Dean.

### ENGLISH

*Professors:* MARTHA HALE SHACKFORD, PH.D.  
 AGNES FRANCES PERKINS, M.A., M.S. (Chairman of English Composition)  
 LAURA HIBBARD LOOMIS,<sup>3</sup> PH.D.  
 ELIZABETH WHEELER MANWARING, PH.D.  
 HELEN SARD HUGHES, PH.D. (Chairman of English Literature)  
 ANNIE KIMBALL TUELL,<sup>3</sup> PH.D.  
 ALFRED DWIGHT SHEFFIELD, M.A.  
 BERTHA MONICA STEARNS, M.A.  
*Associate Professors:* JOSEPHINE HARDING BATCHELDER, M.A.  
 EDITH CHRISTINA JOHNSON, PH.D.  
 KATHARINE CANBY BALDERSTON, PH.D.  
 ELLA KEATS WHITING, PH.D.  
 GRACE ETHEL HAWK, B.LITT. OXON.  
 ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS  
*Assistant Professors:* EDITH HAMILTON, M.A.  
 THOMAS HUBBARD VAIL MOTTER, PH.D.  
 CHARLES WILLIAM KERBY-MILLER, PH.D.  
*Lecturers:* EMMA MARSHALL DENKINGER, PH.D.  
 AMY KELLY, M.A.  
*Instructors:* EVELYN KENDRICK WELLS, M.A.  
 HELEN LOUISE GARLINGHOUSE, M.A.  
 RUTH CARPENTER CHILD, PH.D.  
 ELIZABETH ROGERS PAYNE, PH.D.

For purposes of election, English Literature and English Composition are regarded as two departments. A choice of three majors is offered to students interested in working in the field of English.

- I. A major in English Language and Literature.
- II. A major in English Composition.
- III. A joint major in Literature and Composition.

#### I. ENGLISH LANGUAGE AND LITERATURE

##### 101. ENGLISH LITERATURE OF THE RENAISSANCE—AN INTRODUCTION.

This course presents through selected types the literature of the English Renaissance as it reflects the thought, the adventure, the creative impulse of the

<sup>3</sup>Absent on leave for the second semester.

period, from More's *Utopia* through the Age of Shakespeare. It considers the representative forms of Renaissance poetry: the sonnet, the short lyric, through Jonson and Campion, the romantic epic in Spenser's *Faerie Queene*. It studies representative types of Elizabethan and Jacobean drama, in the plays of Shakespeare and his contemporaries. It studies the prose of the period in the work of Lylly, Sidney, and Bacon.

*Open to freshmen, sophomores, and juniors. Three hours a week for a year.*

MISS TUELL, MISS BALDERSTON, MISS STEARNS, MISS WHITING,  
MISS HAWK, MISS WELLS, MRS. PAYNE.

#### 103. THE BRITISH BALLAD.

The traditional ballad is studied in its British and American forms. Special attention is devoted to its tunes, to its preservation of folk lore and popular tales, and to the varying forms of special ballads. The ballad as inspiration for modern poets is emphasized. A study will be made of ballad collectors, such as Bishop Percy, Sir Walter Scott, Francis J. Child, and Cecil Sharp, with special consideration of the types of people among whom the ballad has survived.

*Open to freshmen and sophomores. One hour a week for a year. Miss WELLS.*

#### 201. HISTORICAL DEVELOPMENT OF ENGLISH LITERATURE.

In order to avoid the rapid reading in a general survey, the course in different years concentrates on particular phases of English literature, considered historically in relation to contemporary English life and thought. In general, the first semester deals with literature in the Middle Ages and the Renaissance; the second semester, with literature of the seventeenth, eighteenth, and nineteenth centuries. This course counts for hours toward the degree, but not for admission to a course of grade III. Examination both semesters.

*Open to juniors and seniors. No prerequisites. Three hours a week for a year.*  
Miss HUGHES.

#### 202. AMERICAN LITERATURE.

The course presents a comprehensive account of American literature from its beginnings in the seventeenth century to modern times. It stresses the work of representative writers and the changing conditions of American social life.

*Open to sophomores, juniors, and seniors. No prerequisites. Three hours a week for a year.*  
Miss STEARNS.

#### 203 (1). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON.

This course emphasizes the stress and conflict of an age of transition. It considers primarily the innovations of Donne and Jonson in poetry and those of Bacon, Browne, Burton, Walton, and Hobbes in prose. Some time is given also to reading the Cavalier and religious poets.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for the first semester.*  
Miss HAWK.

#### 204 (2). MILTON.

The primary object of the course is the critical study of Milton as a master in lyric, epic, and dramatic poetry, and as a writer of notable prose. The character

and genius of the poet are considered as influenced by the political and religious conflict of the time.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for the second semester.*

MISS HAWK.

206 (1). THE ENGLISH NOVEL: THE RISE OF THE TYPES.

The course deals with selected stages in the growth of the English novel, from the Elizabethans to Scott, placing special emphasis upon the eighteenth century in the work of Richardson, Fielding, Smollett, Sterne. It follows mainly the trend of realism, but considers types of romance: the pastoral, the picaresque, and forms associated with the Romantic Movement,—the tale of terror, the historical novel, the novel of social reform. Class discussions, lectures, tests. Final paper for students intending to do major work in the department; for others, final paper or examination.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for the first semester.*

MISS TUELL.

207 (1). ARTHURIAN ROMANCE.

Malory's *Morte d'Arthur* is studied as a masterpiece of mediæval prose fiction. The course then traces the development of feudalized Arthurian tradition from the twelfth century to the fifteenth, and indicates the relation of certain famous legends such as that of Tristan and Isolt to pagan Irish romance. As time permits, modern Arthurian poems are discussed.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for the first semester.*

MRS. LOOMIS.

208 (1) or (2). CHAUCER.

This course traces the development of Chaucer's art. His poetry is studied in relation to its sources, and to the social and literary background of his time. The major portion of his work is read.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for a semester; offered in both semesters.*

MRS. LOOMIS, MISS WHITING.

209. VERSIFICATION.

The course has as its object in general such study of the principles of English versification as may give to the student of literature a keener appreciation of poetic expression; and, in particular, for those interested in writing verse, opportunity for experiment and criticism.

*Open to students, except freshmen, who have completed or are taking one full course in the department of English Literature, and also to those majoring in English Composition. One hour a week for a year.*

MISS MANWARING.

210. MODERN POETRY.

This course will undertake to present some of the chief English poets and

the most striking developments in English poetry since 1900. It may not be counted toward a major in this department.

*Open to juniors and seniors without prerequisite. One hour a week for a year.*  
MISS MANWARING.

**211. THE HISTORY OF THE ENGLISH DRAMA.**

This course studies English drama from its beginnings to 1860. The first semester deals with the mediæval, Tudor, and Elizabethan periods; Shakespeare, represented by two plays only, will not overshadow the attention given to his principal contemporaries. The second semester carries the study from the post-Shakespeareans through the Restoration and eighteenth century to the reappearance of realism in Tom Robertson.

*Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisite. Three hours a week for a year.* MR. MOTTER.

**212. MODERN ENGLISH DRAMA.**

First semester: The history of the drama continued from 1860 to 1914, with study of the influence of Ibsen and other continental dramatists. Second semester: the post-war contemporary theatre, with study of its relationship to the Elizabethan and Restoration drama, as well as to the contemporary continental drama. This course may not count toward a major in English literature.

*Open to juniors and seniors without prerequisite. Two hours a week for a year.*  
MR. MOTTER.

**213 (1). STUDIES OF CONTINUING TYPES IN GREEK, LATIN, AND ENGLISH LITERATURE.**

One of the following topics will be selected for each year's study: (1) Epic Poetry—Homer's *Iliad* and *Odyssey*; Vergil's *Aeneid*; *Beowulf*, and Milton's *Paradise Lost*. (2) Satire—early Greek iambic poets, Aristophanes, and Lucian; Horace and Juvenal; eighteenth century English satire. (3) Lyric Poetry—Sappho, Alcaeus, Pindar, and Theocritus; Vergil, Catullus, and Horace; various English lyric forms. Lectures on other important writers will supplement the reading of the course. Greek and Latin authors will be read in English translation. *The topic selected for the year 1938-39 is Epic Poetry.*

*Open to students who have completed a grade I course in any literature, or to juniors and seniors without prerequisite except students who have taken or are taking Greek 203, Latin 105, or English Literature 204. (A beginning course in a foreign language will not serve as a prerequisite.) Three hours a week for the first semester.*  
MISS HAWK, MISS McCARTHY, MISS TAYLOR.

**301. SOCIAL IDEALS IN ENGLISH LETTERS. (Not offered in 1938-39.)**

Study of selected masterpieces from the social point of view. Rapid reading of *Piers Plowman*, More's *Utopia*, Swift's *Gulliver's Travels*; more careful work with Burke and the Revolutionary poets, and with the prose and poetry of the Victorian Age.

*Open to seniors who have completed two full courses in English Literature or Economics or History, or who have completed one full course in any of these departments and are taking another course. Three hours a week for a year.*

## 306. VICTORIAN PROSE, 1830-1900. (Not offered in 1938-39.)

The course makes a fairly even division of time between novel and essay. Stress is laid upon Dickens, Carlyle, Thackeray, Newman, George Eliot, Ruskin, Arnold, Meredith, Pater, with some attention to Morris, Hardy, James. The course is concerned too with minor groups and figures, as it traces the main tendencies of fiction, and, with reference to present issues, successive problems of modern thought. Class discussion and lectures. Written reviews and at least one term paper. First semester, examination; second semester, final paper or examination.

*Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department,\* or (2) completed three hours of grade II in the department.\* Three hours a week for a year.*

MISS TUELL.

## 307. ENGLISH POETRY OF THE NINETEENTH CENTURY.

The course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary thought. Extended study is given to Wordsworth and Coleridge; Shelley and Keats; Tennyson and Browning; with briefer readings from Byron, Scott, Landor, Clough, Arnold, Rossetti, Morris, Swinburne, and Meredith. Written reviews. Occasional brief papers. First semester, examination; second semester, test to be decided later.

*Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department,\* or (2) completed three hours of grade II in the department.\* Three hours a week for a year.*

MISS SHACKFORD.

## 309. SHAKESPEARE.

This course traces the development of Shakespeare as a dramatist and poet. About thirty plays are read in all, chronologically, according to types. The plays before 1600 are read in the first semester, the plays after 1600 in the second. Sufficient study of Shakespeare's predecessors and contemporaries is made to enable the student to distinguish the traditional and imitative aspects of Shakespeare's plays. The course also considers Shakespeare's life, the theatre of his day, representative source problems, and the development of Shakespearean criticism. The course requires frequent short papers during the term, and a final examination in each semester.

*Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department,\* or (2) completed three hours of grade II in the department.\* Three hours a week for a year.*

MISS BALDERSTON.

## 310. EIGHTEENTH CENTURY LITERATURE.

This course considers the major writers of the eighteenth century, with the exception of the novelists. In the first semester, the emphasis is upon the Queen Anne group,—Pope, Swift, Addison, and Steele; in the second semester, upon Doctor Johnson and his circle and the precursors of the Romantic Movement. The course traces the influence upon literature of politics, of current ideas con-

\*Courses 201, 202, 210, 212, and 213, not in the English Literature major, do not serve as prerequisites for grade III.

cerning man and society, and changing standards of criticism. Examination both semesters.

*Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department,\* or (2) completed three hours of grade II in the department.\* Three hours a week for a year.*

MISS HUGHES.

**311. SEVENTEENTH CENTURY EXCLUSIVE OF MILTON.** (Not offered in 1938-39.)

This course will be devoted to a somewhat intensive study of certain phases of the century.

*Open to juniors and seniors who have completed course 101, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.*

**312. HISTORY OF THE ENGLISH LANGUAGE.**

This course traces the development of the English language from its beginning to the present day. Selected works of English authors which illustrate the various stages in the development of the language are studied. Some consideration is given to problems of modern usage.

*Open to juniors and seniors who have completed or are taking a full year course or two semester courses of grade II either in English Composition or in English Literature; and, in addition, to students who are concentrating in foreign languages. Three hours a week for a year.*

MISS WHITING.

**320. SEMINAR. STUDIES IN EIGHTEENTH CENTURY LITERATURE.** (Not offered in 1938-39.)

The work is carried on by means of assigned reading, class discussion of individual reports, and conferences on individual investigations.

*Open to seniors who have completed six hours of work in the department, and to graduate students. Three hours a week for a year.*

**321. SEMINAR. MODERN AUTHORS.** (Not offered in 1938-39.)

Two or more authors are chosen each year for special study. The work is carried on by class reading and discussion, and by assigned readings upon which individual reports are made.

*Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.*

**322. SEMINAR. ENGLISH ROMANTICISM.** (Not offered in 1938-39.)

A study of the Romantic Movement in England, from its beginnings in the eighteenth century, on through the work of the early nineteenth century poets. Certain phases of the relation of English to German literature during the period of reaction are studied.

*Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.*

\*Courses 201, 202, 210, 212, and 213, not in the English Literature major, do not serve as prerequisites for grade III.

323. SEMINAR. CRITICAL STUDIES IN ENGLISH DRAMA. (Not offered in 1938-39.)

In 1934-35 the general subject was the English drama of the Renaissance, with special study of the work of Lyly, Marlowe, Shakespeare, and Jonson. The course attempts to give training in methods of research, touching problems relating to: the theory of tragedy, comedy, the theatre, publication, textual criticism, but the primary object is the study of Shakespeare's most important work in the light of contemporary drama. Special topics, discussions, conferences.

*Open to seniors who have completed six hours of work in the department, and to graduate students. Three hours a week for a year.*

324. STUDIES IN AMERICAN LITERATURE.

This course will deal with a selected group of representative American writers. The social background and the literary achievement of each writer will be studied in some detail.

*Open to seniors who have completed six hours of work in the department, and to graduate students. Three hours a week for a year.* MISS STEARNS.

325. SEMINAR. BEGINNINGS OF THE ENGLISH RENAISSANCE FROM CAXTON TO SHAKESPEARE. (Not offered in 1938-39.)

The course aims to give graduate training, and so to present the beginnings of the English Renaissance that the student may rightly estimate the achievements of the great Elizabethans.

*Open to graduates, and to approved seniors. Three hours a week for a year.*

326. SEMINAR. ENGLISH MEDIAEVAL LITERATURE.

In the first semester the course deals with Chaucer's chief precursors and contemporaries and their use of lyric, romance, and allegory. A previous knowledge of Middle English is not required; sufficient linguistic training will be given to enable students to read such texts as *The Pearl* and *Piers the Plowman* in the original. The second semester will be devoted to the study of Chaucer's own poetry with particular reference to problems connected with its sources and its influence. Methods those of graduate study.

*Open to graduates, and to approved seniors who are majoring in the department. Three hours a week for a year.* MRS. LOOMIS, MISS BRUEL.

327. SEMINAR IN OLD ENGLISH. (Not offered in 1938-39.)

A study of Old English inflections, phonology, and syntax. The reading of the best pieces of literature in Old English prose and poetry. A particular problem in either literature or language is assigned to each student for investigation.

*Open to graduates, and to seniors by permission of the department. Three hours a week for a year.*

328 (1). BIBLIOGRAPHY.

This course aims to acquaint the graduate student with the chief information and procedure requisite for the discovery and use of her material: examination of original texts, study of editions, use of general works of reference, technical periodicals, and special studies in different fields of English literature.

*Not open to undergraduates. Required of graduate students in the department. One hour a week for the first semester.* Miss MANWARING.

### 350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, qualified seniors or graduate students may arrange for directed study in a field in which they have already worked.

*Permission to register for this must be obtained before electives are handed in. One to three hours a week for a year. The amount of work contemplated must be indicated at the time of handing in the electives.*

## II. ENGLISH COMPOSITION

### 101.† REQUIRED FRESHMAN COMPOSITION.

First semester: exposition. Emphasis on structure and on use of source materials. Weekly themes or their equivalent. Second semester: critical and interpretative writing; description; simple narration. Fortnightly themes or their equivalent.

*Required of freshmen. Three hours a week for a year.*

Miss MANWARING, MR. SHEFFIELD, Miss BATCHELDER, Miss HAMILTON, Mr. KERBY-MILLER, Miss DENKINGER, Miss KELLY, Miss GARLINGHOUSE, Miss CHILD, Mrs. PAYNE.

### 102 (I). CONTINUATION COURSE IN COMPOSITION.

Practice in the organization and presentation of ideas developed from the student's reactions to planned reading. Special stress on vocabulary, and on paragraph and sentence, in relation to thinking.

*Required of students who have made D grade in the second semester of course 101. (In case the number of students incurring this requirement falls below the minimum for a class, the work will be individually conducted on a tutorial plan.) Three hours a week for the first semester.* MR. SHEFFIELD.

### 201 (I). THE ESSAY.

This course traces the development of the technique of the English essay through the letter, the character, and other literary forms; and studies the methods of such essayists as Lamb, Hazlitt, Stevenson, and Chesterton. The course offers varied reading in contemporary essays and frequent practice in writing different types of essays, with class discussion of principles and craftsmanship.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the first semester.* MISS JOHNSON.

### 203 (I). STUDIES IN JOURNALISTIC WRITING.

A critical study of selected types of journalistic writing: news story, editorial, special article, book review, dramatic review, as exemplified in typical American and English newspapers and weekly periodicals. Constant practice in writing.

\* If such students were exempted from course 101 at midyears, they may take a fourth semester of grade II work.

† If a student submits papers notably deficient in English as part of her work in any department, she may incur a condition in English Composition, whether or not she has completed the requirement in English Composition.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the first semester.* MISS PERKINS, MISS BATCHELDER.

**204 (2). STUDIES IN CONTEMPORARY WRITING.**

A study of the elements of style, the essay or dialogue, the critical review, the biography, and the sketch. Fortnightly themes or their equivalent.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the second semester.* MISS PERKINS, MISS CHILD.

**205 (2)†. FURTHER STUDIES IN JOURNALISTIC WRITING. (Not offered in 1938-39.)**

This course is primarily a continuation of course 203, but may be elected separately. A study of articles in various American and English monthly magazines, with special reference to the suggested use of the student's own resources. Monthly or fortnightly articles, and collateral reading.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the second semester.* MISS PERKINS.

**206 (1). FREE WRITING.**

Practical and creative forms of prose composition with illustrative reading. The types of writing are selected in accordance with the interests of individual members of the class. Discussion of papers in class and in conference.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the first semester.* MISS HAMILTON.

**207 (2). FREE WRITING (continued).**

Emphasis laid upon contemporary material in the types of writing studied and practiced. Discussion of papers in class and in conference.

*Open to students who have completed the requirement in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the second semester.* MISS HAMILTON.

**208 (2)†. STUDIES IN BIOGRAPHY AND LITERARY PORTRAITS.**

This course deals with some of the problems and practices that distinguish biography as a developing form of literary art. Emphasis will be placed on the contemporary biographer's way of handling his materials, often as influenced by other fields of expression. This course may follow course 203 or 206 or 201. Writing varied and frequent.

\* If such students were exempted from course 101 at midyears, they may take a fourth semester of grade II work.

† Courses 205 and 208 will be offered in alternate years.

*Open to students who have completed the requirements in English Composition. Not open to students majoring in Composition who have completed three semesters of grade II work or who are taking another writing course.\* Three hours a week for the second semester.*

MISS BATCHELDER.

301 (1). NARRATIVE WRITING.

Study of the principles and forms of narrative writing, including the short story. The course aims to lead the student to discover the possibilities of material at her disposal, and to appreciate more fully the qualities of good narrative

*Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the first semester.*

MISS JOHNSON, MISS DENKINGER.

302 (2). CRITICAL STUDIES IN MODERN PROSE.

A consideration of the background and development of modern English prose. Practice in writing narrative and exposition, with special emphasis on literary criticism.

*Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the second semester.*

MISS JOHNSON, MISS DENKINGER.

303. CRITICISM.

The philosophy and practice of literary criticism, with special study of the *Poetics* of Aristotle, the critical tenets of neo-classicism, and modern attitudes in criticism resulting from the Romantic movement. Lectures and frequent short critical papers.

*Open to juniors and seniors. One hour a week for a year.* MISS JOHNSON.

304. SENIOR COURSE IN COMPOSITION.

A study of varied techniques, with one dramatization or original play, and one long, sustained piece of work covering the remainder of the year. Frequent critical papers.

*Open to seniors who have completed course 203 or 206 or 201 followed by course 204, 205, 207, or 208; or courses 301-302; or, by special permission, course 303. Not open to students who are taking course 301 or 302 or a course of grade II. Three hours a week for a year.*

MISS PERKINS, MISS MANWARING.

350. RESEARCH OR INDIVIDUAL STUDY.

*Open by permission to graduate students only. One, two, or three hours a week for a year.*

DIRECTIONS FOR ELECTION

I. MAJOR IN ENGLISH LITERATURE

*Distribution of work:* To insure a desirable distribution of work over several periods of literary history, students planning majors in English Literature should make sure that one of their grade III courses studies a period not previously treated in a course of grade I or grade II.

\* If such students were exempted from course 101 at midyears, they may take a fourth semester of grade II work.

Courses not counted in the major: The following courses in English Literature are not counted in the major: 201, 202, 210, 212, 213.

*Related courses:* Related courses for concentration may be chosen from many fields. Knowledge of at least one foreign literature, and ability to read certain foreign languages, ancient and modern, is of great value to the student of English Literature. Understanding of the history of the periods in which the literature is studied is also important. In English Composition special attention is called to courses 201, 208, 303; for classical literature studied in translation, Greek 203, 204, and Latin 105 are noteworthy.

#### GENERAL EXAMINATION IN ENGLISH LITERATURE

The examination will consist of questions covering the courses included in the English Literature major. In this list there will be a sufficient number of questions to insure a fair opportunity for choice. Each student will select the questions dealing with the subjects she has studied in her own major. The questions will seek to test: (1) The student's knowledge of authors, works, types, and the periods included in her major; (2) her intelligence and accuracy in correlating her knowledge; (3) her independence of judgment and her literary discrimination. Members of the department will meet the seniors concerned once or twice during the first semester to discuss the general examination and methods of studying for it.

#### II. MAJOR IN ENGLISH COMPOSITION

*Distribution of work:* English Composition 101 is required of all students, but it will not be counted as part of the major in Composition. For a twelve hour major the following sequence is recommended: two or more semester courses of grade II (see restrictions under individual courses); six hours of grade III (course 303 is always to be included); a three hour course in English Literature to be chosen from the following: 206, 306, 310, 312.

**NOTE:** Either 301-302 or 304 must be elected in the senior year in a twelve hour major. No two writing courses may be taken at the same time, but English Composition 303 and courses in English Literature may be taken simultaneously with a writing course. Courses 209 and 312 in English Literature are also regarded as courses in Composition.

*Related courses:* Students intending to teach or to engage in literary work should include in their program additional courses in Literature and a course in Language. Some knowledge of Latin and Greek Literature in the original or in translation is highly important for a teacher of English, as is a background of history, especially English History.

#### GENERAL EXAMINATION IN ENGLISH COMPOSITION

The general examination in English Composition will include questions on the theory—on the principles of craftsmanship—underlying the specific courses the student has taken; it will include a study of the forms of description, narration, and exposition in their general aspects; a study of differing types of essay, of biography, of criticism; a study of the historical development of the sentence, of the paragraph, and of the linguistic elements composing our vocabulary. The

student will be expected to organize her answers clearly and to write with reasonable fluency and finish. Supplementary reading and detailed instructions will be given in a department statement to be issued later.

### III. JOINT MAJOR IN LITERATURE AND COMPOSITION

*Distribution of work:* This major consists of six hours of English Composition beyond Composition 101, and nine hours of English Literature. A student may elect further work in either Literature or Composition, or both, or in some related subject, as part of the twenty-one hours in her field of concentration.

The courses in Composition should include three hours of grade II and three hours of grade III. Students exempted from Composition 101 at midyears should complete the year with a Composition course of grade II.

The courses in Literature should include at least three hours of grade II and three hours of grade III. One of the following courses not counted in the Literature major—201, 202, 210, 212—may count as part of the joint major. In general, one of the Literature courses elected should deal with a period earlier than the nineteenth century.

*Related courses:* The background of related courses to be desired for this major is the same as that described under the majors in Literature and Composition.

### GENERAL EXAMINATION IN LITERATURE AND COMPOSITION

This joint examination will consist of a combination of questions selected from the general examinations set for English Literature and English Composition. The questions will deal with the material in both fields included in the student's program for the joint major.

### FRENCH

*Professors:* RUTH ELVIRA CLARK, LITT.D. (Chairman)  
RENÉ ESCANDE DE MESSIÈRES, AGRÉGÉ DE L'UNIVERSITÉ.

*Associate Professors:* DOROTHY WARNER DENNIS, B.A., DIPL.E.U.

ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS.

Françoise Ruet, M.A., AGRÉGÉE DE L'UNIVERSITÉ.

EDITH MELCHER, PH.D.

MARJORIE HENRY ILSLEY, DOCTEUR DE L'UNIVERSITÉ DE PARIS.

NICOLETTE INA PFRNOT, LIC. ÈS LET.

*Lecturer:* LUCIE LE GARREC, AGRÉGÉE DE L'UNIVERSITÉ.

*Instructors:* ALICE MARGUERITE MARIE MALBOT, LIC. ÈS LET.

ELISABETH MEREDITH RODRIGUE, M.A.

RENÉE BARRUCAND WHITE, . . . A., DIPL.P.F.E.

### THE JUNIOR YEAR IN FRANCE

With the permission of the Administrative Board of the College and the department of French, juniors whose work in French, as well as in other subjects, is above the average may be allowed to spend the junior year in France with the Foreign Study Group of the University of Delaware. This group is composed of men and women students from accredited American colleges and is directed by American college professors.

The year is divided into two periods, a summer term from the first week in September to the fourth week in October, and the regular French academic session from November 2 to July 1. The summer term is spent at Tours under the direction of the University of Poitiers, the second session at the University of Paris. The instruction is given by leading professors of the Sorbonne. The subjects of their courses include various periods of French literature, French language, art, history, and philosophy.

The Delaware Committee on Foreign Study provides supplementary instruction by French tutors who meet the students in weekly conferences. Special courses are also

organized for members of the group, covering such subjects as Contemporary Politics, the Contemporary Novel, and the Contemporary Theatre in France.

The members of the group live in French homes where they are received as members of the family. A carefully arranged program of excursions, operas, and plays provides for extracurricular activities.

#### 101. ELEMENTARY COURSE.

The course includes (1) a practical study of French pronunciation, phonetic drill; (2) the practical study of French grammar; (3) readings on French life and French institutions; (4) selected readings from modern writers. Constant oral drill and frequent written work.

*Open to students who do not present French for admission. Three class appointments and one group conference, counting three hours a week for a year.*

MISS DENNIS.

#### 102. SELECTED READINGS FROM MODERN FRENCH AUTHORS DEALING WITH LIFE IN DIFFERENT REGIONS OF FRANCE.

These texts serve as a basis for a systematic review of syntax introductory to theme writing and oral narrative, and a practical study of French pronunciation with phonetic drill.

*Open to students who have completed course 101, or present two units in French for admission. Three class appointments and one group conference, counting three hours a week for a year.*

MISS DENNIS, MRS. ILSLEY, MISS MELCHER, MRS. WHITE.

#### 103. FRENCH LIFE AND INSTITUTIONS.

A study of modern plays and novels dealing with aspects of French contemporary life. Stress will be laid on grammar, vocabulary and pronunciation. Frequent themes and exercises. Outside reading.

*Open to students who present three units in French for admission. This course is intended for students who need further training in the spoken and written language. Students whose classroom work has been conducted hitherto mainly in English are urged to elect this course rather than course 104. It is not open to students who have completed course 104 and only exceptionally, by permission of the department, to students who have completed course 102. Three hours a week for a year.*

MRS. ILSLEY, MISS MALBOT, MISS MELCHER, MISS PERNOT, MISS RODRIGUE.

#### 104. INTRODUCTION TO THE STUDY OF FRENCH LITERATURE.

A study of representative literary masterpieces of various periods. The aim of this course is to prepare students for more advanced work in language and literature, acquainting them with French methods of literary study. It provides an historical background and includes a study of pronunciation, grammar, and vocabulary, as well as application of *lecture expliquée* methods. It affords constant practice in the written and spoken language. Outside reading of representative novels.

*Open to students who present three units of French for admission or have completed course 102. This course is intended for students whose previous classroom work has been conducted mainly in French. It is not open to students who have taken course 103. Three hours a week for a year.*

MISS MALBOT, MISS LE GARREC, MISS RODRIGUE.

**201. FRENCH CIVILIZATION BEFORE THE REVOLUTION.**

An introduction to the civilization of France, as revealed in history, art, and selected literary masterpieces. Emphasis is laid on language as a preparation for later courses. Class discussion, oral reports, frequent written work.

*Open to students who have completed course 103 or 104, or present four units in French for admission, and, on recommendation of the department, to students who have completed course 102 or another three-hour course of grade 11. Three hours a week for a year.*

MISS DENNIS, MISS BRUEL, MISS RUET.

**202. COMPOSITION, TRANSLATION, GRAMMAR.**

First course. Weekly written work. The object of the course is to provide additional practice in the written and the spoken language.

*Open to students who have completed course 103 or 104 or present four units in French for admission, and on special recommendation of the department to students who are taking course 103 or 104. One hour a week for a year.*

MISS CLARK.

**203. HISTORY OF FRENCH LITERATURE.**

First semester: an introductory study of the Middle Ages and the Renaissance; the seventeenth century. Second semester: the eighteenth and nineteenth centuries. A survey course with lectures or class discussion of selected masterpieces, short papers, outside reading. English will be used in the classroom and for all written work. Texts studied will be in French. A reading knowledge of French is required. This course may not be counted toward a major in French.

*Open to juniors and seniors without prerequisite, and with special permission of the department to sophomores who offer as prerequisite an acceptable background in English or any other literature and a sufficient reading knowledge of French. Three hours a week for a year.*

MISS MELCHER.

**204. STUDIES IN FRENCH LITERATURE.**

A study of representative French authors of the Middle Ages, the Renaissance (the texts used are in modern French), the seventeenth and eighteenth centuries. A few subjects only are chosen for each period and special attention is given to method and to the handling of material in view of further work. Brief papers, *lecture expliquée*, outside reading, class discussion.

*Open to students who have completed course 104 and, on recommendation of the department, also to students who have completed course 103; and, exceptionally, to students who have completed course 201. This course is not open to students who have completed or are taking course 203. Three hours a week for a year.*

MISS BRUEL, MRS. ILSLEY, MISS MALBOT.

**205. COMPOSITION, TRANSLATION, GRAMMAR.**

Intermediate course. Weekly written work. Stress will be laid on translation.

*Open to students who have completed course 202 or 201 or 204 or 207, and to other students on recommendation of the department. One hour a week for a year.*

MISS PERNOT

**206. PRONUNCIATION AND DICTION.**

This course is intended primarily to supplement advanced courses by practical work in speech. An analytical study of American defects, both general and re-

gional, in French speech, and means of remedying such defects. A practical study of pronunciation and intonation.

*Open to students who have completed courses 103 or 104, or 102 with the consent of the department, and to those who have taken or are taking a grade II or a grade III course in French. Two class periods a week and one hour of practice work, counting as one hour a week for a year.*

MISS PERNOT.

**207. THE DEVELOPMENT OF MODERN FRENCH DRAMA.**

After a brief introductory survey of the drama of the Middle Ages, the Renaissance, and the Classical Age, this course will study the theatre of the eighteenth century, including Voltaire, Marivaux, Beaumarchais, *le drame bourgeois*; the plays of the Romantic period; the comedy of manners and the problem play; *le théâtre libre*; contemporary drama, including plays by Rostand, Maeterlinck, Curel, J. Romains, Claudel, Giraudoux, and others.

*Open to students who have completed course 104 or a three-hour course of grade II, and, on the recommendation of the department, to students who have completed course 103. Three hours a week for a year.*

MR. DE MESSIÈRES, MISS MELCHER.

**208. CONVERSATION.**

The aim of this course is to provide additional practice in the spoken language and to build up the student's vocabulary while giving some insight into French current events and various aspects of French life. Class discussion based on the study of French periodicals, newspapers, or recent books.

*Open to students who have completed course 103 or 104 or present four units in French for admission. One hour a week for a year.*

MISS BRUEL, MISS MALBOT, MISS RODRIGUE.

**301. THE CLASSICAL PERIOD OF FRENCH LITERATURE.**

The main object of the course is the study of the development of French classical literature and of society. The authors studied are: Malherbe, Descartes, Pascal, La Rochefoucauld, La Bruyère, Bossuet, Fénelon, Corneille, Racine, Molière, La Fontaine, Boileau. Outside reading. Brief papers.

*Open to students who have completed course 201 with a grade of at least C, or course 204 or 207 or 203; also to seniors who are taking three hours of grade II. Three hours a week for a year.*

MISS CLARK, MISS LE GARREC.

**302. EIGHTEENTH CENTURY LITERATURE.**

The aim of this course is to trace the development of French liberal thought in the eighteenth century, and to give some account of the influences that brought about the French Revolution and contributed to the Romantic movement in France. The course will stress the works of Montesquieu, Voltaire, Diderot, and Rousseau.

*Open to juniors and seniors who have completed course 204 or 207 or 203, or who have taken a grade III course. Three hours a week for a year.*

MISS CLARK.

**304 (1). CONVERSATION.**

A conversation course based on the reading of contemporary regional novels on Brittany, Normandy, Touraine, Béarn, Provence, etc.

*Open to juniors and seniors who have completed three hours of grade II or are taking a three-hour course of grade II, and, on recommendation of the department, to sophomores who have completed a three-hour course of grade II. Two hours a week for the first semester.*

MISS RUET.

309 (2). CONVERSATION.

The work of the course is the same as in 304, but other novels will be assigned.

*Open to juniors and seniors who have completed three hours of grade II or are taking a three-hour course of grade II, to students who have completed course 304, and, on recommendation of the department, to sophomores who have completed a three-hour course of grade II. Two hours a week for the second semester.*

MISS RUET.

305. THE EVOLUTION OF THE FRENCH NOVEL.

Intensive reading of representative masterpieces; beginning with mediæval romances and stories, the course goes on to study novels of the classical period and XVIIIth century, such as l'Astrée, la Princesse de Clèves, Manon Lescaut, la Nouvelle Héloïse; it extends through the XIXth, analyzing works of Stendhal, Balzac, Flaubert, Maupassant and Barrès. Oral reports, class discussion, approximately a paper a fortnight.

*Open to juniors and seniors who have completed course 204 or 207, or who are taking a course of grade III. Three hours a week for a year.*

MISS BRUEL.

306. NINETEENTH CENTURY LITERATURE. ROMANTICISM.

A study of the romantic movement in French literature, and in particular of the great novelists and poets of that period: Lamartine, Vigny, Victor Hugo, Musset, Chateaubriand, Mme. de Staël, Benjamin Constant, Balzac, Stendhal. Approximately a paper a fortnight. Occasional visits to Farnsworth Art Museum or Boston Museum of Fine Arts for basis of written work.

*Open to juniors and seniors who have completed a full grade III course, and to approved juniors and seniors who have completed course 204 or 207 or 203. Three hours a week for a year.*

MR. DE MESSIÈRES.

307. CONTEMPORARY FRENCH LITERATURE.

I. The evolution of French poetry from Baudelaire to the present day, with special studies of Baudelaire, Verlaine, Rimbaud, Claudel, Valéry, Mme. de Noailles, etc. II. The masters of French prose during the same period: Barrès, Bergson, Gide, Proust, Giraudoux, Mauriac, Maurois, J. Romains, etc.

*Open to seniors who have completed course 301 or 302 or 305 or 306 and, exceptionally, on special recommendation of the department, to seniors who have completed course 203 or 204. Three hours a week for a year.*

MR. DE MESSIÈRES.

308 (1). STUDIES IN LANGUAGE.

Advanced composition and translation.

*Open to juniors and seniors who have completed or are taking a three-hour course of grade III, and, on recommendation of the department, to juniors and seniors who have completed course 205. Two hours a week for the first semester.*

MISS RUET.

## 310 (2). STUDIES IN LANGUAGE.

The aim of this course is the same as in 308, but different subjects and texts will be studied.

*Open to juniors and seniors who have completed or are taking a three-hour course of grade III, and, on recommendation of the department, to juniors and seniors who have completed course 205. Two hours a week for the second semester.*

MISS RUET.

## 320. SEMINAR. CURRENTS OF THOUGHT IN THEIR RELATIONSHIP TO FRENCH LITERATURE. (Not given in 1938-39.)

The course will include the analysis and interpretation of such subjects as the French Renaissance, principles of classicism, conflicts of ideas in the XVIIIth century, the evolution of French romanticism, trends in present-day literature.

*Open to graduates and approved seniors. Three hours a week for a year.*

MR. DE MESSIÈRES.

## 321. OLD FRENCH. (Not offered in 1938-39.)

*Open to graduate students who have completed twelve year-hours of college French, and, on recommendation of the department, to seniors who have completed the same amount of work. Three hours a week for a year.*

## 322 (1). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR. PROSE. (Not offered in 1938-39.)

A study of the life and works of a prose writer in relation to the social history and literary trends of the period. A single author of outstanding importance will be selected, such as Montaigne, Pascal, Molière, Voltaire, Rousseau, Balzac, Flaubert or Proust.

*Open to graduate students and approved seniors. Three hours a week for the first semester.*

## 323 (2). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR. POETRY. (Not offered in 1938-39.)

The work in this course is similar to that of course 322. The author studied might be one of the following: Racine, Lamartine, Victor Hugo, Baudelaire, Paul Valéry.

*Open to graduate students and approved seniors. Three hours a week for the second semester.*

## 350. RESEARCH OR INDIVIDUAL STUDY.

*Open to graduate students and to approved seniors who have completed at least one full grade III course in the department and are taking another full grade III course. The permission of the department must be secured before electives are handed in. Two to three hours a week for a semester or a year. The amount of work contemplated must be stated at the time of handing in electives.*

## DIRECTIONS FOR ELECTION

I. Course 101 counts for the degree but does not count towards a major.

Course 102 counts for the major only if directly followed by a three-hour course of grade II.

Students planning to major in the department should not carry two three-hour courses of grade II without permission of the department.

II. A twelve-hour major will consist of not less than six hours of grade III and not more than three hours of grade I.

III. Course 202 taken in the sophomore year, course 205 in the junior year and courses 308, 310 in the junior or senior year will be most valuable to students majoring in French. Course 206 will give additional training in diction.

Students majoring in French may take the examination to test a reading knowledge of a foreign language in a classical or a second modern foreign language. They are reminded of the special usefulness of a sustained reading knowledge of Latin in the study of French language and literature.

Students majoring in French literature are advised to include 301 in their program. Greek 203 (Greek Literature in English Translations), Latin 105 (Latin Literature in English Translations), and courses in Italian and Spanish literature including the XVIth century, are recommended to students planning to elect French 301.

The following courses are suggested to students planning to elect French 302: History 102 or 201, English Literature 206, 310.

Students proposing to elect French 305 are advised to elect English Literature 207 and 206.

Students proposing to elect French 306 are advised to elect History 201, English Literature 322, German 305, Italian 202, and Spanish 301.

Students proposing to elect French 307 in the senior year are advised to elect course 306 in the junior year.

All students are urged to consult their instructors and the chairman of the department in regard to their higher electives, especially such students as intend to teach French and desire the recommendation of the department. It will be well for them to plan fifteen hours of electives.

Only those students who have completed satisfactorily a twelve-hour major in the department will be recommended as teachers of French.

Special attention is called to Education 303, which is open to seniors who are taking French 301, 302, 305, 306, or 307.

#### GENERAL EXAMINATION

The general examination in French will consist of two parts:

Part I. French Literature. Three hours.

Part II. French Language. Two hours.

Part I will consist of one or two general questions stressing interrelations of the more advanced courses.

Part II will consist mainly of translation from French into English, and English into French.

#### MODEL GROUPINGS OF TWELVE-HOUR MAJORS SUITABLE AS A BASIS FOR THE GENERAL EXAMINATION

I. Students entering with two units of French.

*First Year:* 102.

*Second Year:* On special recommendation of the department: 201.

*Third Year:* 301.

*Fourth Year:* One of the following: 302, 305, 306, 307.

II. Students entering with three units of French.

*First Year:* 103 or 104.

*Second Year:* One of the following: 201, 204, 207.

*Third Year:* Preferably 301, or one of the following: 302, 305, 306.

*Fourth Year:* 307 (or one of the following, if not previously taken: 302, 305, 306).

III. Students entering with four units of French.

*First Year:* 201.

*Second Year:* 301.

*Third Year:* One of the following: 302, 305, 306 (preferably 306, if 307 is to follow).

*Fourth Year:* 307 (or one of the following, if not previously taken: 302, 305, 306).

*Important Note*

To the preceding should be added, if possible, one or more of the following courses:

A. Grammar and Composition Courses: 202 in the sophomore year, 205 in the junior year, 308, 310 in the junior or senior year.

B. Pronunciation and Diction: Course 206.

C. Conversation Courses: 208 in the sophomore year, 304, 309 in the junior or senior year. (304, 309 in the sophomore year on recommendation of the department.)

D. Research or Individual Study: 350 in the senior year.

E. Seminars: 320, 322, 323 in the senior year.

**GEOLOGY AND GEOGRAPHY**

*Professor:* MARY JEAN LANIER, PH.D. (Chairman)

*Associate Professor:* MARGARET TERRELL PARKER, M.A.

*Assistant Professor:* LOUISE KINGSLEY, PH.D.

*Lecturer:* RUSSELL GIBSON, PH.D.

*Instructors:* ESTHER JANE ABERDEEN, PH.D.

Alice Mary Dowse, M.A.

*Secretary and Custodian:* GWENYTH MORGAN RHOME, B.A.

**101. GENERAL GEOLOGY.**

First Semester—Physiography. A study of the work which wind, waves, rivers, glaciers, volcanoes, and earth movements have done and are doing to shape the earth's surface. This study explains the origin of hills and valleys, of plains, plateaus and mountains, of continents and ocean basins, and makes clear the ways in which these surface features have affected man's life. Second Semester—Historical Geology. The origin of the earth and its history from the time of its origin until the present. The evolution of life on the earth traced from its earliest known appearance through its recent development.

*Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory work. Occasional afternoon field trips will be substituted for laboratory work. The course counts three hours a week for a year.*

MISS LANIER, MISS PARKER, MISS KINGSLEY,  
MISS ABERDEEN, MISS DOWSE.

## GEOLOGY

## 202 (1). MINERALOGY.

A study of minerals, including those which are economically valuable, such as ore minerals and gem stones, and those which are essential constituents of rocks. The student will learn to identify and determine the composition of all the better known minerals, making use of both physical properties and methods of blowpipe analysis. The modes of occurrence of minerals and the industrial uses to which they are put are included in the study.

*Open to students who have completed Geology 101 or Chemistry 101. Two three-period appointments a week for lecture and laboratory work, counting three hours a week for the first semester.*

MR. GIBSON.

## 203 (2). ECONOMIC GEOLOGY.

A study of economically valuable mineral deposits, both metallic and non-metallic. The course deals with the origin, composition, and geological and mineralogical relations of these deposits, and, briefly, with their geographic distribution and political significance.

*Open to students who have completed course 202. Two three-period appointments for lecture, class discussion, and laboratory work, counting three hours a week for the second semester.*

MISS KINGSLEY.

## 205 (1). PALEONTOLOGY.

The course deals with the facts and principles of organic evolution as revealed by the life of the past. The steps in the development from simple, generalized forms to more complex and specialized types are illustrated by a detailed comparative study of fossils of the various phyla. The effects of physical environment upon life development are emphasized.

*Open to students who have completed Geology 101 or Zoölogy 101. Two two-period appointments for lectures, class discussion, and laboratory work, with independent laboratory assignments. The course counts three hours a week for the first semester.*

MISS ABERDEEN.

## 301 (2). FIELD GEOLOGY. (Not given in 1938-39.)

An introduction to the methods of field study. The course is designed to train the student to make a topographic map, and to interpret and map the geology of a region.

*Open to juniors and seniors who have completed courses 101 and 202. One three-period lecture or laboratory appointment, or one afternoon in the field, with independent field work related to the student's special problem. In addition to the scheduled appointment, students registering for course 301 should keep at least three other consecutive periods available for independent work on field problems. The course counts three hours a week for the second semester.*

MR. GIBSON.

## 312 (1). CRYSTALLOGRAPHY. (Not given in 1938-39.)

The course deals mainly with optical crystallography and the application of optical crystallography to the study of minerals. The laboratory work consists of the determination of minerals by means of their optical constants.

*Open to juniors and seniors who have completed Geology 202. Juniors and seniors majoring in Chemistry or in Physics may be admitted to the course upon the*

*recommendation of the two departments concerned. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the first semester.*

MISS KINGSLEY.

313 (2). PETROGRAPHY. (Not offered in 1938-39.)

This course includes the identification of rocks by means of a study of thin sections with the petrographical microscope, and aims to give the student an elementary knowledge of the origin and composition of rocks.

*Open to juniors and seniors who have completed course 312. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the second semester.*

MISS KINGSLEY.

314 (1). IGNEOUS AND STRUCTURAL GEOLOGY. (Not given in 1938-39.)

An introduction to problems of vulcanism and of structure. The course will include a study of the methods by which mountain structures and intrusive igneous phenomena are interpreted.

*Open to juniors and seniors who have completed courses 101 and 202. Two two-period appointments for lecture and laboratory, with occasional field trips, counting three hours a week for the first semester.*

MISS KINGSLEY.

315 (2). GEOMORPHOLOGY. (Not given in 1938-39.)

The relation of structure to land forms. The work will include a study of the main physiographic provinces of North America and comparisons of American areas with European regions. It will include also an analysis of some current controversial problems.

*Open to juniors and seniors who have completed course 101 and a grade 11 course in geology, or by special permission to those who have completed course 101 only. Two two-period appointments a week for lecture and laboratory work, with occasional field trips, counting three hours a week for the second semester.*

321. PROBLEMS IN GEOLOGY. (Not offered in 1938-39.)

This course is designed to give students training in independent investigation. Individual problems are assigned and reports to the instructor are made at regular intervals.

*Open to graduate students and by permission to seniors who are majoring in Geology. Three hours a week for a semester or for a year.*

MR. GIBSON.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

*Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.*

SUMMER FIELD WORK. Credit may be given advanced students for summer field work, plans for which are approved in advance by the department. The amount of credit will depend upon the nature and extent of the work. This applies either to field trips offered by other colleges, or to special field problems directed by members of the department.

## GEOGRAPHY

## 208 (1). THE GEOGRAPHY OF EUROPE.

A study of man's adjustment to physical environment in Europe. Topography, climate, and other environmental factors are studied in their relation to human development in that continent. The study makes clear how environmental features help to explain the early rise of civilization in Europe, the distribution of races and languages, the origin of the present political units, and the economic development of Europe as a whole. Certain nations of major interest to American students are given further detailed study.

*Open to juniors and seniors, and to sophomores who have completed course 101 or who are planning to major in History or Economics. Three hours a week for the first semester.*

MISS PARKER.

## 209 (2). THE ECONOMIC GEOGRAPHY OF NORTH AMERICA.

A study of man's economic activities as related to environmental factors in the major geographic regions of North America. The objective of the course is to develop a clear conception of the elements of the natural environment, such as climate, topography, soils, surface and underground waters, mineral resources, native vegetation, and to emphasize in the regions studied the important adjustments which man has made to these elements.

*Open to juniors and seniors, and to sophomores who have completed course 101 or who are planning to major in History or Economics. Three hours a week for the second semester.*

MISS LANIER.

## 304 (1). THE GEOGRAPHY OF SOUTH AMERICA.

A study of the physiographic features, climates, and resources of South America; the influence of these factors upon the colonization of the continent by Europeans, upon the formation of independent political units, and upon the present and possible future economic development of the various countries.

*Open to juniors and seniors who have completed a grade II course in geography; by permission to students of South American history. Three hours a week for the first semester.*

MISS LANIER.

## 307 (1). THE HISTORICAL GEOGRAPHY OF THE UNITED STATES.

An analysis of the relations between the natural environment and the settlement and development of the country. The adjustments to varied environments in connection with the westward expansion of the American people. An interpretation in selected areas of readjustments made from time to time in response to the changing significance of some element or elements in the environment. A geographic background to American history.

*Open to juniors and seniors who have completed course 209, and by permission to students of American history. Three hours a week for the first semester.*

MISS LANIER.

## 308 (2). PROBLEMS IN THE GEOGRAPHY OF EURASIA.

A geographic study of selected regions of the Eurasian continent (exclusive of countries given detailed treatment in course 208). Students will interpret independently in so far as possible the human response to physical environment in each region. The course gives opportunity to apply independently geographic

principles developed in earlier regional courses, as well as to gain familiarity with new territory and to study interesting contrasts between oriental and western civilization.

*Open to juniors and seniors who have completed course 208. Three hours a week for the second semester.* MISS PARKER.

309 (2). CLIMATES OF THE WORLD. (Not offered in 1938-39.)

A course designed to give an understanding of the major types of climate and of their distribution in the several continents; to show the significance of climate as a factor in the economic activities of a region and in the trade between different regions.

*Open to juniors and seniors who have completed at least one regional course in geography. Three hours a week for the second semester.*

305 (2). SEMINAR IN GEOGRAPHY. (Not given in 1938-39.)

The course begins with a study of the methods of individual research. Early in the course a selected topic is assigned to each student for investigation and reports of the individual work are presented weekly.

*Open to graduate students and to approved seniors. Three hours a week for the second semester.* MISS PARKER.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

*Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.*

#### DIRECTIONS FOR ELECTION

GEOLoGY. Students who wish to major in Geology are advised to take Chemistry. Students intending to do graduate work in Geology will find German indispensable.

A Geology major should include courses 101, 202, and at least seven and a half hours selected from other courses in the subject.

Geography. Students who wish to major in Geography will find that this work correlates well with work in History and Economics. For advanced work in the subject, both French and German are useful, though there is somewhat more material available in French than in German.

A Geography major should include courses 101, 208, 209, and at least six hours of grade III work in the subject.

By permission of the department, three hours of closely correlated work in History will be accepted as part of a twelve-hour major in Geography.

#### GENERAL EXAMINATION

A major offered for the general examination in Geology or in Geography must include course 101.

Some questions based upon the fundamental work given in course 101 will be required both of students majoring in Geology and those majoring in Geography. With this exception, entirely different examinations will be set for the two groups.

Some choice of questions will be possible. The questions will involve correlation and interpretation of material, and the application of general principles to specific cases.

The department will suggest supplementary summer reading for those students who desire such assistance.

## GERMAN

*Professor:* NATALIE WIPPLINGER, PH.D. (Chairman)  
*Associate Professor:* MARIANNE THALMANN, PH.D.  
*Assistant Professors:* BARBARA SALDITT, PH.D.  
 MARGARET JEFFREY,<sup>1</sup> PH.D.  
*Instructors:* JOHANNA ELISABETH VOLBEHR.  
 LILLI GUNHILD BURGER, PH.D.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

A limited number of qualified students are permitted to spend the junior year in Munich.

## 101. ELEMENTARY COURSE. GRAMMAR, READING, ORAL AND WRITTEN EXERCISES.

The texts used in this course are made the basis for a study of grammatical forms and rules, for speaking exercises and composition work. Frequent written exercises are required.

*Open to students who do not present German for admission. Three hours a week for a year.*  
 MISS THALMANN, MISS SALDITT, MISS JEFFREY,  
 MRS. VOLBEHR, MISS BURGER.

## 102. ELEMENTARY COURSE. READING, FREE REPRODUCTION, WRITTEN AND ORAL EXERCISES, SHORT THEMES; MEMORIZING OF POEMS.

The methods are the same as in course 101. In connection with the reading, special attention is given to the learning of the more common idioms. Several poems are memorized. Frequent written tests or short themes are required. Course 102 is intended to fit students to enter course 202.

*Open to students who have completed course 101 or present two units in German for admission. Three hours a week for a year.*

MISS THALMANN, MISS SALDITT, MISS JEFFREY,  
 MRS. VOLBEHR, MISS BURGER.

## 104. OUTLINE HISTORY OF GERMAN LITERATURE.

The object of this course is to furnish the student with the vocabulary necessary for the reading and discussion of literature, and to give her a general historical background for the more detailed study of German literature in subsequent courses.

*Open to freshmen who present three or more units in German for admission. Three hours a week for a year.*

MRS. VOLBEHR.

## 202. HISTORY OF GERMAN LITERATURE.

First semester: discussions, reading, and occasional lectures on the history of German literature before Goethe. The aim is to trace the parallel development of literature, social conditions, and religious ideals of the times. Works read

<sup>1</sup>Appointed for the first semester only.

and discussed are: the *Hildebrandslied*, selections from the *Nibelungenlied*, the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied*, selections from Luther, Hans Sachs, Lessing, Herder. Second semester: Schiller, Goethe, and a brief survey of the nineteenth-century literature.

*Open to students who have completed course 102. Three hours a week for a year.*

MISS WIPPLINGER, MISS SALDITT.

**204 (1). SCHILLER'S LIFE AND WORKS.**

(Introductory Course.) Lectures, discussions. Study of Schiller's life and some of his important dramatic works. Texts: *Die Räuber* (Cotta); *Wallenstein* (Carruth); Schiller's *Gedichte* (Cotta); Schiller's *Briefe* (Kühnemann). Occasional themes.

*Open to students who have completed courses 104 or 202. Three hours a week for the first semester.*

MISS THALMANN.

**205 (2). GOETHE'S LIFE AND WORKS.**

(Introductory Course.) Lectures, discussions. Study of the principal characteristics of Goethe's life and works to the time of his literary co-operation with Schiller. Works discussed in class: *Götz von Berlichingen*, *Werther*, *Iphigenie*, *Egmont*, selected poems. Interpretation of "Storm and Stress" in connection with *Götz*, of German classicism in connection with *Iphigenie*. Supplementary discussion of Goethe's *Briefe* (Langewiesche), *Dichtung und Wahrheit*, Bielschowsky's *Goethe*, Euripides' *Iphigenie*. Occasional themes.

*Open to students who have completed courses 104 or 202. Three hours a week for the second semester.*

MISS WIPPLINGER.

**206. CONVERSATIONAL GERMAN.**

Modern German works are read and discussed. Talks in German based on material used in other college courses or found in current German magazines are prepared and given by members of the class.

*Open to students who have completed courses 102 or 104, or on special recommendation to those who have completed course 101. One hour a week for a year.*

MRS. VOLBEHR.

**207 ADVANCED CONVERSATIONAL GERMAN.**

The same method used as in 206. More difficult reading material used.

*Open to students who have completed course 202 or 206, and by special permission to those who have completed course 104. One hour a week for a year.*

MRS. VOLBEHR.

**301 (1). GERMAN NOVEL.**

Historical development of the German novel since Goethe.

*Open to juniors and seniors who have completed three hours of grade II. Three hours a week for the first semester.*

MISS THALMANN.

**302 (2). HISTORY OF THE GERMAN LANGUAGE. (Not given in 1938-39.)**

This course aims to give a fuller and more thorough understanding of modern German through the study of its historical development.

*Open to juniors and seniors who have completed three hours of grade II. Three hours a week for the second semester.*

MISS JEFFREY

## 303 (2). MIDDLE HIGH GERMAN. (Not offered in 1938-39.)

(Introductory Course.) Survey of Middle High German forms and sounds. Translation of Middle High German epic and lyric poetry into the modern idiom.

*Open to juniors and seniors who have completed at least three hours of grade II. Three hours a week for the second semester.*

## 304 (1). GOETHE'S FAUST, PART I.

Study of the pre-Goethean development of the Faust legend in its more important literary forms. Close study of the text of Goethe's *Faust*, Part I. Collateral readings and reports on the relation of the poem to Goethe's life and times. Part II will be treated in a few final lectures. Frequent tests.

*Open to juniors and seniors who have completed course 205. Three hours a week for the first semester.*

MISS WIPPLINGER.

## 305 (2). THE GERMAN ROMANTIC SCHOOL.

A study of the development and spirit of the German Romantic School.

*Open to juniors and seniors who have completed course 304. Three hours a week for the second semester.*

MISS WIPPLINGER.

## 306 (2). LESSING AS DRAMATIST AND CRITIC. (Not offered in 1938-39.)

Treatment of Lessing's critical work in literature, theology, and aesthetics.

*Open to juniors and seniors who have completed course 304. Three hours a week for the second semester.*

MISS SALDITT.

## 307 (1). GOETHE, ADVANCED COURSE.

(Seminary Course.) Study of Goethe's lyrics, ballads, later dramas, parts of *Faust II*, and other works. Collateral reading in the *Goethe Jahrbuch*, and from Eckermann, Gräf, Harnack, and others. Consideration of Goethe's relation to other literatures.

*Open to seniors who have completed course 304. Three hours a week for the first semester.*

MISS WIPPLINGER.

## 308 (2). NINETEENTH CENTURY DRAMA.

Special study of Kleist, Grillparzer, Hebbel, Ibsen, Hauptmann, Schnitzler, Hofmannsthal, Strindberg, Wedekind; their relation to classic and romantic art, and to the social and philosophical problems of the century.

*Open to seniors who have completed course 304. Three hours a week for the second semester.*

MISS THALMANN.

## 309 (1). SCHILLER AS PHILOSOPHER AND WRITER ON AESTHETICS. (Not offered in 1938-39.)

(Seminary Course.) Study of Schiller through his correspondence with Körner, Goethe, etc., and through his philosophic poems and essays.

*Open to seniors who have completed course 204 and at least three hours of grade III. Three hours a week for the first semester.*

## 310 (2). GOTHIIC. (Not offered in 1938-39.)

*Open to graduates and to seniors by permission of the instructor. Three hours a week for the second semester.*

311 (2). GERMAN LYRIC POETRY IN THE NINETEENTH AND TWENTIETH CENTURIES. (Not given in 1938-39.)

*Open to juniors and seniors who have completed three hours of grade II. Three hours a week for the second semester.* MISS THALMANN.

350. RESEARCH OR INDIVIDUAL STUDY.

*Open to graduate students, and, by permission, to approved seniors. Three hours a week for a semester or for a year.*

DIRECTIONS FOR ELECTION

I. For students who begin German in college.

*First Year:* Course 101.

*Second Year:* Course 102.

*Third Year:* Courses 202, 206.

*Fourth Year:* Courses 204, 205, 207, 301, 311, 302.

II. For students who offer the Two Unit Requirement.

*First Year:* Course 102.

*Second Year:* Courses 202 and 206.

*Third Year:* Courses 204, 205, 207, 301, 302, 311. Students may not omit 204 and 205 except by permission from the chairman of the department.

*Fourth Year:* Courses 304, 305, 307, 308, 207, 301, 311.

III. For students who offer the Three Unit Requirement.

*First Year:* Course 104.

*Second Year:* Courses 204, 205, 206. Students may not omit 204, 205 except by permission from the chairman of the department.

*Third Year:* Courses 207, 304, 302, 305, 301, 311.

*Fourth Year:* Courses 302, 304, 305, 307, 308, 301, 311.

The major is based on courses 104 or 202. Students planning to major in German are advised to take courses in Philosophy, Mediæval History, and English and French Literature.

Students intending to teach German will be recommended by the department only on condition that they have taken from three to six hours of grade III. They are advised to take courses 207 and 302.

The department accepts any of the languages (including Latin and Greek) for the reading language test.

GENERAL EXAMINATION

The questions will be based on the courses offered by the department. The questions will test (1) the student's ability to use the German language correctly, (2) her knowledge of the historical development of German literature, (3) her ability to correlate her knowledge of the courses taken in the department.

GREEK

*Associate Professor:* HELEN HULL LAW, PH.D. (Chairman)

*Assistant Professor:* BARBARA PHILIPPA McCARTHY, PH.D.

101. BEGINNING GREEK.

The aim of the course is to cover in one year the fundamental facts of Greek grammar with practice in reading and writing. The Greek reading includes selections from the great writers of prose and poetry.

Open to students who do not present Greek for admission. Three hours a week for a year. MISS LAW, MISS McCARTHY.

## 201 (1). PLATO.

*Apology, Crito* and selections from other dialogues.

Open to students who have completed course 101 or present two or three units in Greek for admission. Three hours a week for the first semester. MISS LAW.

## 205 (2). HOMER.

Selected books of the *Iliad*.

Open to students who have completed courses 101 and 201 or present two units in Greek for admission and have completed course 201, and to others on recommendation of the department. Three hours a week for the second semester. MISS McCARTHY.

## 202 (2). HOMER. (Not given in 1938-39.)

Selected books of the *Odyssey* or other material selected to meet the needs of the class.

Open to students who present three units in Greek for admission and have completed course 201, and to those who have completed course 205. Three hours a week for the second semester. MISS McCARTHY.

## 203 (1). GREEK LITERATURE IN ENGLISH TRANSLATION: HOMER, LYRIC POETS, TRAGEDY.

The class will read the *Iliad*, selections from the lyric poets, and as many of the plays as possible of Aeschylus, Sophocles, and Euripides. The class discussions will be accompanied by lectures on the origin of epic poetry and tragedy and their influence on later literature. This course may not be counted toward a major in Greek.

Open to juniors and seniors without prerequisite, and to sophomores who have completed a course in literature in any department. (This does not include a beginning course in a foreign language.) Three hours a week for the first semester. MISS McCARTHY.

## 207 (2). GREEK LITERATURE IN ENGLISH TRANSLATION: FROM THE FIFTH CENTURY THROUGH THE GRÆCO-ROMAN PERIOD.

This course with course 203 gives a survey of the field of Greek literature, but either course may be elected independently. A study will be made of the origin and development of such literary types as history, the short story, prose romance, comedy, dramatic dialogue, pastoral, epigram, and Hellenistic epic. Special emphasis will be placed upon the influence of these types on later literature. The reading will be, for the most part, from the writings of Herodotus, Thucydides, Aristophanes, Plato, Theocritus, and Lucian. This course may not be counted toward a major in Greek.

Open to juniors and seniors without prerequisite, and to sophomores who have completed a course in literature in any department. (This does not include a beginning course in a foreign language.) Three hours a week for the second semester. MISS LAW.

## 204. CLASSICAL MYTHOLOGY.

The more important myths of the classical period will be studied in relation to the literature, art, and religion of ancient times and their influence on the literatures of succeeding periods. This course may not be counted toward a major in Greek.

*Open to juniors and seniors without prerequisite, and to sophomores who have completed a course in literature in any department. (This does not include a beginning course in a foreign language.) One hour a week for a year.* Miss LAW.

## 213 (1). STUDIES OF CONTINUING TYPES IN GREEK, LATIN, AND ENGLISH LITERATURE.

For description and prerequisites, see English Literature 213.

## 206 (1). WRITING OF GREEK. (Not given in 1938-39.)

Review of the essentials of grammar and syntax. Written exercises based on prose selections to be read at sight in class.

*Open to students who have completed course 101 and are taking another course in the department other than courses 203 and 204. Three hours a week for the first semester.* Miss McCARTHY.

## 301. GREEK DRAMA

Reading and study of dramas of Æschylus, Sophocles, Euripides and Aristophanes.

*Open to students who have completed course 201 and either course 205 or 202. Three hours a week for a year.* Miss LAW.

## 302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS.

This course includes epic, elegiac, lyric, and pastoral poetry.

*Open to students who have completed course 201 and either course 205 or 202. By permission of the department students may elect either semester of course 302 as a semester course. Three hours a week for a year.* Miss McCARTHY.

## 305. MODERN GREEK.

This course will trace briefly the development of the language to the present time with practice in speaking and writing the Greek of today.

*Open to students who are taking another course of grade III in the department, and to others by permission of the department. One hour a week for a year.* Miss McCARTHY.

## 307 (1). GREEK HISTORIANS. (Not given in 1938-39.)

Rapid reading from the histories of Herodotus and Thucydides.

*Open to students who have completed course 201 and either course 205 or 202. Three hours a week for the first semester.* Miss LAW.

## 308 (2). PLATO.

The study of Plato's philosophy with reading in Greek from the *Republic*, *Symposium*, *Phaedrus*, and other dialogues.

*Open to students who have completed course 201 and either course 205 or 202. Three hours a week for the second semester.* Miss LAW.

## 350. RESEARCH OR INDIVIDUAL STUDY.

*Open to seniors by special permission and to graduate students. Three hours a week for a semester or a year.*

For courses in the study of Greek Testament see Biblical History.

## DIRECTIONS FOR ELECTION

Courses 203, 204, 207, and 213 may not be counted toward a major in Greek. Students majoring in Greek are advised to elect some work in Latin. Their attention is also called to the courses in Greek History, Classical Art, and Greek Philosophy.

## GENERAL EXAMINATION

The general examination in Greek will include passages for sight translation with questions on language and syntax. Students will be expected to show an acquaintance with the origin, development and characteristics of the various types of literature studied together with the background of history, religion, and myth. The student should make a special effort to grasp the distinguishing characteristics of Greek civilization as shown in its literature.

## GROUP LEADERSHIP

*Professor: ALFRED DWIGHT SHEFFIELD, M.A.*

## 201. LEADERSHIP IN ORGANIZED GROUPS.

A study of the processes of thought and expression by which clubs, conferences, and committees deal with current problems in the community. The work will be based partly on the records of group experience in Christian Associations, civic and philanthropic boards, industrial joint councils, and adult education projects, partly on guided observations of current organizational procedures, and partly on readings in social psychology. There will be written analyses of typical situations, with attention to points where adjustment calls for skill in dealing with fixed ideas, prejudices, and other emotional factors. Occasional brief papers in both semesters, with examination for the first semester and final paper for the second.

*Open to seniors, and to juniors and sophomores who have completed, or are taking, Economics 101 or a course of grade I in History or Political Science. Three hours a week for a year.*

MR. SHEFFIELD.

## COURSES OF INSTRUCTION

## HISTORY AND POLITICAL SCIENCE

*Professors:* JULIA SWIFT ORVIS, PH.D.  
 ELISABETH HODDER, PH.D.  
 EDWARD ELY CURTIS, PH.D. (Chairman)  
 BARNETTE MILLER, PH.D.  
 JUDITH BLOW WILLIAMS,<sup>4</sup> PH.D.  
*Associate Professor:* LOUISE OVERACKER, PH.D.  
*Assistant Professor:* M. MARGARET BALL, PH.D.  
*Instructors:* JAMES BRUCE ROSS, PH.D.  
 GWENDOLEN MARGARET CARTER, PH.D.  
 MARGARETA AGATA FAISSSLER,<sup>5</sup> PH.D.  
*Assistant:* JANET FRENCH, B.A.

## HISTORY

## 101. MEDIÆVAL AND RENAISSANCE EUROPE.

Beginning with a discussion of Rome's legacy to Europe, this course includes the study of such topics as the Mediæval Church, feudal society, Mohammedanism and the Crusades, mediæval towns and guilds, the development of commerce and banking, the intellectual awakening of the thirteenth century, the Renaissance of Art and Literature, the age of exploration and early colonization, the Protestant movement, and the foundation of modern European nations.

*Open to all undergraduates. This course or course 102 is prerequisite to later election. Three hours a week for a year.*

MISS ORVIS, MRS. HODDER, MISS ROSS.

## 102. MODERN EUROPEAN HISTORY.

After a survey of conditions in the second half of the seventeenth century, this course will trace the leading movements in the development of modern Europe, such as colonial expansion in the eighteenth century, the Industrial Revolution, the French Revolution, the Liberal and Nationalist movements of the nineteenth century, the emergence of the modern British Empire, the unification of Italy and Germany, and the Great War.

*Open to all undergraduates. This course or course 101 is prerequisite to later election. Three hours a week for a year.*

MISS MILLER, MISS WILLIAMS, MISS CARTER, MISS FAISSSLER.

## 201. HISTORY OF EUROPE SINCE THE FRENCH REVOLUTION.

An introductory survey of the French Revolution and the Napoleonic Era is followed by a discussion of the political development of France, Germany, Austria, Italy, and Russia from 1815 to the present.

*Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year.*

MISS ORVIS.

## 203. THE HISTORY OF GREECE.

This course will open with a brief survey of the oriental civilizations by which the Greeks were influenced. A study of the social, economic, and political development of the Greek State will follow, and with this as a foundation Greek civilization in its most significant aspects will be considered.

*Open to students who have completed one college course in History and, without prerequisite, to those who are giving special attention to the Classics. Three hours a week for a year.*

MRS. HODDER.

<sup>4</sup> Absent on leave in the second semester.

<sup>5</sup> Appointed for the second semester only.

## 204. HISTORY OF ROME. (Not offered in 1938-39.)

This course offers a general survey of Roman History. The conclusions of modern archaeologists and historians with regard to the earlier period are studied, but the main emphasis is placed upon Rome's experiments in government, the attempts of her statesmen to solve the social and economic problems of the Republic, and the Empire, and upon the development of Rome's legacy to the modern world.

*Open to sophomores, juniors, and seniors who have completed one college course in History, and without prerequisite to those who are giving special attention to Latin, Greek, or Economics. Three hours a week for a year.* MRS. HODDER.

## 205 (1). COLONIAL AMERICA.

This course deals with the foundation and growth of the British Empire in America. Emphasis is laid upon British colonial policy and administration, and upon the causes and course of the American Revolution. Lectures, discussions, and library readings.

*Open to sophomores, juniors, and seniors who have completed or are taking a full course in History. Three hours a week for the first semester.* MR. CURTIS.

## 207 (1). GEOGRAPHY IN EUROPEAN HISTORY. (Not offered in 1938-39.)

This is not a course in Geography, but in History. Emphasis, however, is laid on geographical setting, and on the influence of Geography on national boundaries, governmental development, economic independence, trade relations, and the life and culture of the people within certain areas.

*Open to seniors without prerequisite, and to other students who have completed or are taking one full course in History, or Geography 208. Three hours a week for the first semester.*

## 208 (1). INTERNATIONAL POLITICS: THE NEAR EAST.

A general view of international relations in the Near East since the Congress of Berlin, with special reference to post-war settlements and to present conditions.

*Open to students who have completed one full course in History. Three hours a week for the first semester.* MISS MILLER.

## 209. POLITICAL HISTORY OF RUSSIA FROM THE EARLIEST TIMES TO THE PRESENT.

(Not offered in 1938-39.)

This course includes a study of (1) the forces which made Russia a world power, (2) the development and policy of the autocracy, (3) the struggle for freedom, and (4) the existing régime.

*Open to all seniors, and to juniors who have completed or are taking another course in History. Three hours a week for a year.* MISS ORVIS.

## 210. MEDIÆVAL LIFE AND INSTITUTIONS.

The aim of the course is to show the points of contact and of difference between the modern spirit and the mediæval, as well as to serve as a background for the study of modern history, or of mediæval art or literature. A few mediæval sources are read.

*Open to students who have completed one full course in History. Three hours a week for a year.* MISS ROSS.

## 213. HISTORY OF ENGLAND AND GREATER BRITAIN.

A general survey of English History with especial emphasis upon those political, social, and economic forces which have led to the expansion of England and to the position and problems of the British Empire of today.

*Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year.* MISS WILLIAMS, MISS FAISLER.

## 214 (2). THE RISE OF THE LATIN-AMERICAN REPUBLICS.

After surveying the exploration and conquest of the New World by the Spaniards, this course treats Spanish colonial policy with a view to explaining the causes of the revolutionary movement. The latter part of the course is devoted to the wars of liberation and the emergence of the present republics.

*Open to students who have completed one full course in History. Also open without prerequisite to sophomores, juniors, and seniors who are majoring in Spanish, and to students who have completed Geography 304. Three hours a week for the second semester.* MR. CURTIS.

## 215 (2). INTERNATIONAL POLITICS: THE FAR EAST.

A study of the Orient in the nineteenth and twentieth centuries, with special reference to the politico-economic interests of Europe and America.

*Open to students who have completed one full course in History. Three hours a week for the second semester.* MISS MILLER.

## 301. HISTORY OF THE UNITED STATES FROM 1787 TO THE PRESENT TIME.

A study of the formation and development of the constitution of the United States, with special reference to controlling forces, such as the organization of parties, the growth of democracy, the rise of the slave power, the political effect of the development of the West. Lectures, discussions, and library readings.

*Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. Three hours a week for a year.* MR. CURTIS.

## 302. EUROPE IN RENAISSANCE AND REFORMATION. (Not offered in 1938-39.)

A study of the intellectual, religious, and social life of the fifteenth and sixteenth centuries. In the first semester the Renaissance in Italy and France is emphasized, and in the second semester the Reformation and the Age of Elizabeth.

*Open to juniors and seniors who have completed two full courses in History, or one course in History and two courses in Art. Three hours a week for a year.*

## 304. ENGLAND UNDER THE TUDORS AND STUARTS.

This course deals with the Renaissance and Reformation in England, with Puritanism and the accompanying democratic ideals, with the constitutional struggles of the sixteenth and seventeenth centuries, and with those social and economic changes that were initial to the founding of the British Empire.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MRS. HODDER.

## 305. DIPLOMATIC HISTORY OF EUROPE SINCE 1740.

This course includes (1) a review of the period 1648-1740; (2) the age of Fred-

erick the Great; (3) a survey of the Revolutionary and Napoleonic period; (4) the age of Bismarck and its results; (5) the World War and its consequences.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MISS ORVIS.

**306. BRITISH HISTORY SINCE 1815.**

This course begins with a study of post-war problems and conditions in England in 1815. It then traces the significant developments in the political, social, and intellectual history of Great Britain and the British Empire, and England's part in world affairs, until the present.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MISS WILLIAMS, MISS FAISSSLER.

**307. AMERICAN FOREIGN RELATIONS.**

This course deals with the most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the acquisition of colonial possessions. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power will be traced. Lectures and library readings.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MR. CURTIS.

**308. IMPERIALISM IN WORLD POLITICS.** (Not offered in 1938-39.)

A study of European expansion in Asia, Africa, and the Islands of the Pacific in the nineteenth and twentieth centuries; of colonial and imperial systems and problems; and of international politics as related to the control of raw materials, international finance, and imperial communications.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MISS MILLER.

**309. SELECTED STUDIES IN MEDIÆVAL HISTORY.** (Not offered in 1938-39.)

The course is designed to give training in methods of historical research, using the mediæval period as a field.

*Open to graduates, seniors, and approved juniors who have completed two full courses in History. Three hours a week for a year.*

**311. SOCIAL AND CULTURAL HISTORY OF EUROPE.** (Not offered in 1938-39.)

A course in the evolution of civilization, tracing the development of culture from early times through the rise of the Mediterranean civilizations, the Middle Ages, the Renaissance, and modern times, and covering the more important phases of social, economic, and intellectual life.

*Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.* MISS WILLIAMS

**350. RESEARCH OR INDIVIDUAL STUDY.**

By consultation with the department, students may arrange for from one to three hours of individual work. Permission for this must be obtained before handing in electives.

*Open to juniors and seniors who have completed or are taking a course of grade*

*III in History. One to three hours a week for a year. The amount of work contemplated must be indicated at the time at which electives are due.*

#### POLITICAL SCIENCE

##### 104. INTRODUCTION TO POLITICAL SCIENCE.

Fundamental political conceptions developed through a study of the governments of the United States, Great Britain, France, Germany, Italy, and Russia.

*Open to sophomores, juniors, and seniors without prerequisite, and to freshmen by permission of the Dean of Freshmen. This course is a prerequisite for all other courses in Political Science. Three hours a week for a year.*

MISS OVERACKER, MISS BALL, MISS CARTER.

##### 211 (1). POLITICAL PARTIES AND ELECTORAL PROBLEMS.

The nature of political parties; party organization; the "spoils system"; nominating methods, party finance and campaign methods; public opinion and party leadership; party reform and reconstruction.

*Open to students who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the first semester.*

MISS OVERACKER.

##### 212 (2). PUBLIC ADMINISTRATION.

A study of the administrative aspects of modern government with special emphasis upon municipal problems: problems of organization and structure; the appointment, promotion, and dismissal of public employees; the city manager as a new type of public official; special consideration of selected phases of administration, including police, health, finance, and city planning.

*Open to students who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the second semester.*

MISS OVERACKER.

##### 216 (1). INTERNATIONAL ORGANIZATION.

International organization past and present, with special emphasis on the League of Nations and the Permanent Court of International Justice. Analysis of internationalism in an era of nationalism.

*Open to students who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the first semester.*

MISS BALL.

##### 312 (2). THE SUPREME COURT AND THE CONSTITUTION.

A study of the constitution as interpreted by the Supreme Court. The amending process, the scope of the President's powers, interstate commerce, "due process of law," the Supreme Court and the "New Deal" will be covered through a study of Supreme Court decisions.

*Open to juniors and seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the second semester.*

MISS OVERACKER.

##### 313 (2). INTERNATIONAL LAW.

The law of nations as opposed to municipal law. The law governing the relations between states in war and in peace. The rights and duties of neutrals.

*Open to juniors and seniors who have completed course 104 and a course of grade II in Political Science, History, or Economics. Three hours a week for the second semester.*

MISS BALL.

**314 (1). CURRENT POLITICAL PROBLEMS.**

Each year some one problem will be taken for intensive study through the media of newspapers and periodicals. Oral reports will be required at frequent intervals; a final paper.

*Open to a limited number of juniors, seniors, and graduate students specializing in Political Science, Economics, or History, who have completed two full courses in Political Science. Three hours a week for the first semester.*

MISS BALL.

**316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT.**

For description and prerequisites, see Economics 316.

**317 (1). LAW AND THE ADMINISTRATION OF JUSTICE.**

The nature, sources, and sanction of law; fundamental principles of English and American jurisprudence; the organization of the courts; the judicial process; the jury system.

*Open to juniors and seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the first semester.*

MISS OVERACKER.

**318 (2). MODERN POLITICAL THEORY.**

The leading political theories of the nineteenth and twentieth centuries; a study of the nature and functions of the state, with special reference to individualism and collectivism, democracy, socialism, communism and anarchism, fascism and national socialism. This course is designed to give the student, through a systematic presentation of recent political theories, a foundation for future political judgments.

*Open to students who have completed course 104 and a grade II course in History or Political Science, or Economics 316. Three hours a week for the second semester.*

MISS BALL.

**350 (1). RESEARCH OR INDIVIDUAL STUDY.**

The department is prepared to offer a course of directed reading to a limited number of students. Those desiring to register for such a course must secure the approval of the department before handing in electives.

*Open to seniors who have completed or are taking a course of grade III in Political Science. Three hours a week for the first semester.*

**DIRECTIONS FOR ELECTION**

Students electing History may choose either of the introductory courses 101 or 102, but both of these courses may not be counted in a major. A major in Political Science is based on course 104. The only other restrictions are those required by the prerequisites stated for each course. Students desiring to take the general examination in History are advised, however, to seek the advice of the chairman and other members of the department in order to insure a proper correlation of courses.

The courses are designed to help the student to acquire methods of historical work, and to furnish a basis for the more detailed study of particular periods.

Courses in Political Science may not be included in a major in History, and courses in History may not be included in a major in Political Science without the special permission of the department.

Students may take their general examination in History or in Political Science, and these subjects may be combined in the twenty-one hours of work for concentration.

The courses in Political Science are arranged to meet the needs of three groups of students: those intending to do graduate work in Political Science or Law; those desiring to supplement their work in History, Economics, or Sociology with a knowledge of Political Science; students in other fields who wish to be prepared to take an intelligent part in the political activities of their communities after college.

The department will advise candidates for honors in regard to their fields of special study and will direct their work.

Students proposing to teach history are advised to take at least four courses in the department.

By permission of the department three hours of closely correlated work in Geography will be accepted as part of a twelve-hour major in History.

By special permission certain courses of grade III in Economics and Sociology may be counted toward a major in Political Science.

*Students are urgently advised to consult with the department before deciding upon the courses to constitute a major in History or Political Science.*

#### GENERAL EXAMINATION

The purpose of the general examinations in History and in Political Science is to test:

(1) General knowledge of the subject matter of the courses composing the major.

(2) Ability to analyze, correlate, and compare the subject matter of these courses.

(3) Power to judge and appraise movements and personalities.

The general examination will not assume a knowledge of fact outside the subject matter of the separate courses.

## HYGIENE AND PHYSICAL EDUCATION

*Professors:* EUGENE CLARENCE HOWE, PH.D.

RUTH ELLIOTT, PH.D. (Chairman)

*Lecturer:* MARY FISHER DE KRUUF, M.D.

*Assistant Professors:* CHARLOTTE GENEVIEVE MACEWAN, M.S.

ELIZABETH BEALL, M.A.

MARION ISABEL COOK, M.A.

ELINOR MARIE SCHROEDER, M.A.

*Instructors:* HARRIET LUCY CLARKE, M.S.

KATHARINE FULLER WELLS, M.S.

MARY ELIZABETH POWELL, M.S.

JEAN HELEN HARRIS, M.S.

ELAINE MARGUERITE DEAR, M.S.

HELEN LOUISE RUSSELL, M.S.

MARION DOROTHY JAQUES, B.A.

*Recorder:* FANNY GARRISON, B.A.

*Assistant Recorder:* ANNA ELIZABETH ANDERSON.

*Secretary:* WILLIAM RUSSELL MACAUSLAND, M.D.

LECTURER ON ORTHOPEDICS.

ANDREW ROY MACAUSLAND, M.D.

LECTURER ON ORTHOPEDICS.

MARGARET R. ANTHONISEN, M.D.

LECTURER ON MENTAL HYGIENE.

LORETTA JOY CUMMINS, M.D.

LECTURER ON HYGIENE OF THE SKIN.

CLIFFORD L. DERICK, M.D.

LECTURER ON INTERNAL MEDICINE.

HILBERT F. DAY, PH.B., M.D., F.A.C.S.

LECTURER ON PREVENTIVE SURGERY.

LEIGHTON JOHNSON, M.D.

LECTURER ON HYGIENE OF NOSE AND THROAT.

SAMUEL R. MEAKER, M.D.

LECTURER ON HYGIENE OF MENSTRUATION AND OTHER

GYNECOLOGICAL PROBLEMS.

## I. UNDERGRADUATE COURSES \*

The Department of Hygiene and Physical Education, through its program adapted to individual needs and abilities, aims to help each student to build up sufficient strength and vitality to meet the demands of a normally active life; to appreciate and practice fundamental health habits; to develop a normal, unstrained carriage, a sense of rhythm, coördination and motor judgment; to be a coöperative and contributing participant in group activity; and to acquire skill and a lasting interest in wholesome forms of recreation.

Two hours in Hygiene and Physical Education are prescribed for the degree. One hour is met by course 120, Personal Hygiene; the second hour is met by two periods per week of physical education activities during freshman and sophomore years. Each of the two years' work is divided into Fall and Spring sport seasons, and the Winter or indoor season.

All student choices for sports or winter work are subject to the approval of the department on the basis of the results of the medical and physical examinations, the results of the motor test, and the student's previous experience.

**Sports:** During the four sport seasons, the department requires that students take one season of a team sport; two seasons of an individual sport (not necessarily the same sport); and the other season either an individual sport or a team sport, or, in the spring, the modern dance (outdoors). If a student can demonstrate fair skill in an individual sport, or if she has a Life Saving Certificate, she may substitute team sports for individual sports, or may take the modern dance (outdoors) in the spring.

\* See Section II, page 117, for opportunities for juniors and seniors to enroll in professional courses and pages 117 and 122 for information relative to the five-year course in Hygiene and Physical Education.

**Winter Season:** Freshmen who secure a sufficiently high score in the motor test may elect any of the winter activities listed under 121; those who do not meet this standard may elect modern dance or gymnastics. All sophomores who have completed the first year indoor work may elect any of the activities listed under 122. All electives are subject to the approval of the department.

**Posture Requirement:** Every student must attain a grade of at least C—on her official posture photograph before completing her requirement. Failure to attain this grade by the end of the sophomore year will necessitate enrollment in Hygiene 125 for the winter season.

#### 120. PERSONAL HYGIENE.

The principles of personal hygiene and public health and their intelligent application to the daily living of college students, families, and communities. Personal conferences are arranged for each student.

*Required of freshmen. One hour a week for a year, counting one hour toward the degree.*

DR. DEKRUUF, MISS COOK, MISS CLARKE, MISS HARRIS.

#### 121.\* SPORTS AND INDOOR ACTIVITIES FOR FRESHMEN.

Choice of the following:

*Fall:* Archery, basket ball, golf, hockey, modern dance, riding, rowing, tennis, volley ball.

*Winter:* Badminton, fencing, folk dance, gymnastics, modern dance, tap dance, winter riding.

*Spring:* Archery, golf, lacrosse, modern dance (outdoors), riding, rowing, tennis, volley ball.

*Required of freshmen, two periods a week for a year, counting one-half hour toward the degree.*

THE STAFF.

#### 122.\* SPORTS AND INDOOR ACTIVITIES FOR SOPHOMORES.

Choice of the following:

*Fall:* Archery, basket ball, golf, hockey, modern dance, riding, rowing, tennis, volley ball.

*Winter:* Badminton, fencing, folk dance, gymnastics, modern dance, tap dance, winter riding.

*Spring:* Archery, golf, lacrosse, modern dance (outdoors), riding, rowing, tennis, volley ball.

*Required of sophomores who have completed course 121. Two periods a week for a year, counting one-half hour toward the degree.*

THE STAFF.

#### 124. INDIVIDUAL GYMNASTICS FOR FRESHMEN.

*Required of freshmen whose orthopedic condition indicates the need of individually planned exercise. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree.*

MISS WELLS AND ASSISTANTS.

\* In addition to the regular gymnasium costume required of all students the following requirements with approximate prices should be noted: badminton, \$1.00; fencing, \$8.00; modern dance, \$3.00 (sandals optional, 90¢); advanced tap dance, \$3.00. Students are required to furnish their own individual equipment for such activities as golf, riding and tennis. Archery, \$1.00; basket ball, hockey, lacrosse—barred sneakers, \$2.25. Riding \$20.00 fall or spring; \$40.00 winter. Written permission from the parents to elect riding and special permission for jumping must be filed with the Hygiene Recorder at the time of election.

**125. INDIVIDUAL GYMNASTICS FOR SOPHOMORES.**

*Required of sophomores whose orthopedic condition indicates the need of individually planned exercise. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree. Miss Wells and Assistants.*

**126. VOLUNTARY ACTIVITIES FOR ALL STUDENTS.**

Students may elect with the permission of the department any of the activities listed under courses 121 and 122 and, in the fall, modern dance (technique, dance composition, dance history); in the winter, indoor basket ball; in the spring, modern dance (dance history, percussion). Students who pass special tests may elect modern dance in the Dance Group or the Apprentice Dance Group.

*Open to all students. Two hours a week in the fall, winter, or spring terms. Not to count toward the degree.*

THE STAFF.

**131. RESTRICTED ACTIVITIES FOR FRESHMEN.**

*Required of freshmen whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree.*

MISS DEAR.

**132. RESTRICTED ACTIVITIES FOR SOPHOMORES.**

*Required of sophomores whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree.*

MISS RUSSELL.

**II. COURSES FOR THE CERTIFICATE AND M.S. DEGREE IN HYGIENE AND PHYSICAL EDUCATION\***

The Graduate Department of Hygiene and Physical Education is organized to meet the insistent demand for women of liberal education and broad professional training in this field. Its aim is to develop skilled teachers and supervisors, not only thoroughly conversant with the existing traditional subject matter, but also prepared to contribute to the current advance in educational and scientific research and its application in teaching and organization.

Juniors and seniors may enter the professional courses with the consent of the instructor concerned and the class deans. Credit for the B.A. degree is granted for courses 207 and 303. The opportunity for juniors and seniors to take these courses will be of particular interest to camp councillors, recreation leaders, students in education, and students who are interested in assisting in the teaching of physical education activities in connection with academic subjects.

**A. CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION.**

(1) A two years' course especially designed for the training of teachers of hygiene and physical education and leading to the Certificate of the Department of Hygiene and Physical Education is offered to graduates of approved colleges. In order to be admitted to this course candidates must be without organic disease or serious functional disorder, with a keen sense of rhythm and the ability to use the voice with ease and power.

Candidates should present for admission one year of Chemistry (Chemistry completed in secondary school may be accepted), one semester of Psychology or Educational Psychology, one semester of Principles of Education, and (in order to meet the requirement for state teachers' certificates, Principles of Secondary

\* Graduate students may register in course 126, listed under Section I., above, to complete prerequisite activities and for voluntary participation.

Education and History of Education), and three additional year-hours from one or more of the following fields: Bacteriology, Biology, Hygiene, Physics, and Psychology. Whenever possible the equivalent of Mammalian Anatomy (Zoölogy 301 and 313) and Physiology (Zoölogy 302) should be presented for admission. The following electives are suggested: Courses in French or German, Economics, Sociology, Psychology, Bacteriology, Biology, Physics, and Music.

It is desirable for candidates to have completed, before admission, at least an elementary course (high school, camp, or undergraduate college courses) in as many as possible of the following physical education activities: Archery, Badminton, Baseball, Basket Ball, Canoeing, Fencing, Golf, Hockey, Lacrosse, Riding, Rowing, Soccer, Speedball, Swimming (as evidenced by a Red Cross Life Saving Certificate), Tennis and Volley Ball; Folk, Modern, Social, and Tap Dance; Fundamental Gymnastics (Danish) and Apparatus.

(See pages 118 to 122 inclusive for courses required for the Certificate.)

(2) A five-year course is offered leading to the B.A. degree and the Certificate of the Department of Hygiene and Physical Education. This course is open only to candidates for the B.A. degree in residence at Wellesley College. Students in this course receive the B.A. degree at the end of the fourth year and complete in the fifth year the work required for the Certificate and, in special cases, the requirements for the M.S. degree in Hygiene and Physical Education. (See schedule of required courses for five-year students, page 123.)\*

#### B. MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION.

Graduate students who have qualified for advanced study and research, who have completed or are completing the requirements for the Certificate, and who have given evidence of a reading knowledge of French or German, may register for and complete in one or two years the twelve year-hours required for the M.S. degree in Hygiene and Physical Education. This requirement may be fulfilled by electives from the following: Hygiene and Physical Education 303, 321, 322, 323, 350, thesis, and, with special permission, graduate courses in closely allied fields.\*

#### 202. TECHNIQUE OF TEACHING SPORTS.

Advanced technique, methods of coaching and officiating:

(a) Basket ball, hockey—fall season; archery, soccer and speedball, tennis—spring season.

*Required of first-year graduate students who have completed at least elementary courses in the activities listed. Four hours a week in the fall and spring, with one hour of lecture once a week in the winter.*

(b) Golf—fall season; lacrosse—spring season.

*Required of second-year graduate students who have completed at least elementary courses in the activities listed. Two hours a week in the fall and spring.*

(c) Canoeing. (Not given in 1938-39.)

*Open to graduate students. Previous experience in canoeing recommended but not required. Two hours a week in the fall.*

\* See Bulletin of Graduate Department of Hygiene and Physical Education, and Wellesley College Graduate Circular.

## (d) Badminton.

*Open to graduate students. Previous experience in badminton recommended but not required. Two hours a week in the fall.*

## (e) Fencing.

*Open to graduate students who have completed at least an elementary course in fencing. Two hours a week first semester winter. Miss BEALL, Miss CLARKE, Miss HARRIS, Miss RUSSELL, Miss SCHROEDER, Miss WELLS.*

## 203. TECHNIQUE OF TEACHING GYMNASTICS, APPARATUS, AND TUMBLING.

Lectures on gymnastic terminology, selection and adaptation of material, progression; methods of presentation with practice in teaching.

*Required of first-year graduate students who have completed an elementary course in fundamental gymnastics (Danish) with apparatus. Three hours a week in the winter.*

Miss BEALL, Miss CLARKE.

## 204. TECHNIQUE OF TEACHING RHYTHMIC ACTIVITIES FOR CHILDREN, FOLK AND TAP DANCE.

Elementary rhythmic work and dramatic play for small children; folk and national dances with practice teaching; tap dance.

*Required of first-year graduate students. Three hours a week for a year.*

Miss MACEWAN, Miss BEALL.

## 207. MEASUREMENT IN PHYSICAL EDUCATION.

Instruments of precision and statistical methods as used in Hygiene and Physical Education. This course is preparatory to research and to the study of problems of applied physiology.

*Required of first-year graduate students. Two hours a week for a year. This course counts two hours toward the B.A. degree.*

Mr. HOWE, Miss POWELL.

## 208. PRINCIPLES AND METHODS OF TEACHING PLAY ACTIVITIES.

Psychology of play; growth and development of the child; selection and adaptation of activities for different age periods. Study, observation and practice in methods of teaching story plays, games of low and high organization, self-testing activities, and social games. Organization and conduct of play days and athletic meets.

*Required of first-year graduate students. Psychology or its equivalent is prerequisite. Two hours a week for a year.*

Miss BEALL, Miss COOK.

## 210 (2). PHYSICAL EXAMINATION AND FIRST AID.

Purpose and technique of the physical examination, methods of recording, and the interpretation of findings. Standard course in first aid, leading to the American Red Cross Certificate.

*Required of first-year graduate students. Three hours a week for the second semester.*

Miss WELLS.

## 212 (1). INTRODUCTION TO THE STUDY OF PHYSICAL EDUCATION.

A brief historical survey of physical education in Europe and America is used to show the relation between aims and current practice in physical education

and the social needs and political ideals of different periods. Present-day objectives are discussed and the distinctive values of type activities are suggested.

*Required of first-year graduate students. One hour a week for the first semester.*  
MISS ELLIOTT.

**213. MODERN DANCE: TEACHING MATERIALS AND METHODS; DANCE COMPOSITION.**

Lectures and practice. Sources, classification, selection and adaptation of material; terminology; principles of progression; analysis of methods of presentation and teaching.

*Required of second-year graduate students who have completed the equivalent of elementary and intermediate undergraduate courses in modern dance. A special section of course 126 meeting for two hours a week throughout the year affords the opportunity to first-year graduate students to complete the prerequisite in one year. Four hours a week during the winter: two hours of practice teaching and two hours of dance technique during the first semester; four hours of dance composition during the second semester.*

MISS MACEWAN.

**214. SUPERVISED TEACHING.**

Students assist in the college undergraduate required activities and conduct, under supervision, physical education programs in the public schools of Wellesley.

*Required of second-year graduate students. Ten hours a week for a year, exclusive of individual conferences.*  
MISS COOK AND THE STAFF.

**216 (2). MUSIC IN RELATION TO DANCE.**

Historical survey of the relation of music to dance. A study of the structure of music in relation to movement; principles of accompaniment; percussion techniques.

*Open to first-year graduate students. One hour a week for the second semester.*  
MISS MACEWAN.

**301. MAMMALIAN ANATOMY.**

(Zoölogy 301—See Department of Zoölogy and Physiology.)

**313. MAMMALIAN ANATOMY.**

(Zoölogy 313—See Department of Zoölogy and Physiology.)

**302. PHYSIOLOGY.**

(Zoölogy 302—See Department of Zoölogy and Physiology.)

**303. KINESIOLOGY.**

The study of bodily movement with respect to anatomical mechanism, mechanical and physiological principles, the effect of various types of activity upon the body, and the application of kinesiology to the teaching of physical education.

*Required of first-year graduate students. Courses 301 and 313 or their equivalents may be taken concurrently if not presented as prerequisites. Physics, while not required, is strongly recommended. Three hours a week for a year. This course counts three hours toward the B.A. degree, or (with supplementary assignments) toward the M.S. degree in Hygiene and Physical Education.*  
MISS POWELL.

**304. PRINCIPLES AND PHILOSOPHY OF PHYSICAL EDUCATION.**

Study and discussion of the purposes, scope, and ideals of physical education, including a detailed study of the main groups of activities usually included in a program of physical education with special reference to the selection and adaptation of the same to varying situations in the field.

*Required of second-year graduate students. Two hours a week for a year.*

MISS ELLIOTT.

**306 (2). ORGANIZATION AND MANAGEMENT.**

The study of procedures upon which the teaching situation depends; i.e., analysis and selection of activities, examination and grouping of pupils, testing the results of teaching, evaluation of the teacher or leader, provision of equipment, department organization. Illustrative problems are selected from those of elementary or secondary school and the college.

*Required of second-year graduate students. Two hours a week for the second semester.*

MISS ELLIOTT.

**309. ORTHOPEDIC AND REMEDIAL PHYSICAL EDUCATION.**

The study of body mechanics, corrective exercise, and massage. Preparation for teaching Corrective Physical Education. Lectures by an orthopedist with observation and practice in orthopedic clinics.

*Required of second-year graduate students. Course 303 or its equivalent is prerequisite. Three hours a week for a year.*

MISS WELLS, DR. MACAUSLAND.

**317 (2). PROBLEMS OF ORGANIZATION AND ADMINISTRATION. (Not given in 1938-39.)**

Organization and management studied by field trips, discussion, and library investigation. Records, reports and budgets, construction and upkeep of buildings and sports fields.

*Open to second-year graduate students registered in course 306. One hour a week for the second semester.*

MISS ELLIOTT.

**321. APPLIED PHYSIOLOGY.**

The application of human physiology to the problems of hygiene and physical education. Functional, ability, and achievement tests, nutritional standards. Advanced problems in nutrition and growth, fatigue, coördination and training.

*Required of second-year graduate students. Hygiene 207 and Zoölogy 302, or their equivalents, are prerequisite. Course 207 may be taken concurrently with the permission of the instructor. Three hours a week of lecture and recitation for a year, and one two-hour laboratory period in the winter, counting three hours a week for a year. This course counts three hours toward the M.S. degree in Hygiene and Physical Education.*

MR. HOWE, MISS POWELL.

**322. HEALTH PROBLEMS OF SCHOOL AND COMMUNITY.**

The problems of growth, of health instruction, and environmental hygiene in the solution of which the teacher in physical education should be prepared to assist, advise or supervise. Students take active part in a school health program

of measurement and instruction. This course includes lectures by medical specialists.

*Required of second-year graduate students. Five periods a week; in general three of lecture and two of practical work, counting three hours a week for a year. This course counts three hours toward the M.S. degree in Hygiene and Physical Education.*

MR. HOWE, MISS COOK, AND SPECIAL LECTURERS.

**323. SEMINAR IN HYGIENE AND PHYSICAL EDUCATION.**

Individual study of a professional problem selected by the student, and pursued by means of readings, surveys, school observation, interviews, or other suitable study techniques. Oral reports and group discussion; individual conferences for special guidance. Written reports are presented at stated intervals.

*Open to second-year graduate students. This course counts three hours toward the M.S. degree in Hygiene and Physical Education.*

MISS SCHROEDER, MISS ELLIOTT, MR. HOWE.

**350. RESEARCH OR INDIVIDUAL STUDY.**

With the permission of the department, qualified graduate students may arrange for directed individual study in Hygiene and Physical Education.

*Open to second-year graduate students. One to three hours a week for a year. This course counts toward the M.S. degree in Hygiene and Physical Education.*

**DIRECTIONS FOR UNDERGRADUATES WHO ARE CANDIDATES FOR THE  
B.A. DEGREE AND FOR THE CERTIFICATE OF THE DEPARTMENT OF  
HYGIENE AND PHYSICAL EDUCATION**

Five years are required to complete the work for both degree and certificate. The work for the degree may be completed in four years.

A student may enter this five-year course at the beginning of her freshman, sophomore, or junior year. The College Recorder will furnish the student with a form to be presented to the chairman of the department, since permission to register for the five-year course must be obtained from the chairman by each applicant. By the end of the sophomore year a student should have completed Hygiene and Physical Education 120, 121, 122, Biblical History 104, Chemistry 101, Psychology 101, the prescribed courses in English Composition and Speech, and three additional year-hours from one or more of the following fields: Bacteriology, Biology, Hygiene, Physics, and Psychology.

The following electives are suggested: Courses in French or German, Economics, Sociology, Psychology, Bacteriology, Biology, Physics, Hygiene 216, and (in order to meet the requirement for state teachers' certificates, Principles of Secondary Education, and History of Education). A full major in Zoölogy is an advantage.

It is desirable for candidates to have completed at least an elementary course (high school, camp, or courses 121, 122, 126 at Wellesley College) in as many as possible of the following physical education activities: Badminton, Fencing, Folk Dance, Fundamental Gymnastics (Danish) and Apparatus, Modern Dance, Tap Dance; Archery, Baseball, Basket Ball, Golf, Hockey, Lacrosse, Riding, Rowing, Tennis, Volley Ball, and Swimming as evidenced by a Red Cross Life Saving Certificate.

## SCHEDULE OF PROFESSIONAL COURSES IN THE FIVE-YEAR PROGRAM

*Junior Year:* Courses 126, 204, 210, 212, Education 201, Zoölogy 301, 313. Hygiene 207 and Zoölogy 302 may be taken in the junior or in the senior year.

*Senior Year:* Courses 126, 202(a), 203, 208, 303, and Hygiene 207 and Zoölogy 302, if not completed in the junior year.

*Fifth Year:* Courses 202(b), 213, 214, 304, 306, 309, 321, 322, and 202(a) if not completed in the senior year; and for candidates for the M.S. degree in Hygiene and Physical Education one of the following three year-hour courses: 323, 350, an approved graduate course in an allied department, or a thesis.

Students are referred to the Bulletin of the Graduate Department of Hygiene and Physical Education.

## ITALIAN

*Professor:* GABRIELLA BOSANO, DOTTORE IN FILOLOGIA MODERNA (Chairman).

*Assistant Professor:* ANGELINE LA PIANA, DOTTORE IN LETTERE.

*Instructor:* PIERINA BORRANI CASTIGLIONE, DOTTORE IN LETTERE.

The language of the classroom is Italian except for occasional necessary explanations of grammar and idiom.

## 101. ELEMENTARY COURSE.

Grammar, with written and oral exercises; reading and sight translation; conversation. In the second semester a general view of Italian civilization is given through reading and conversation.

*Open to students who do not present Italian for admission. Three hours a week for a year.* Miss BOSANO, Miss LA PIANA, Mrs. CASTIGLIONE.

## 102. PRACTICAL PHONETICS.

Exercises in pronunciation based on reading aloud short passages of prose and poetry and on singing of Italian folksongs. Emphasis on rhythm and melody of the spoken language and on practical application of scientific phonetics.

*Open to students who are taking course 101 and required of students majoring in Italian. One hour a week for a year.* Mrs. CASTIGLIONE.

## 201. HISTORY OF ITALIAN LITERATURE IN THE TWENTIETH CENTURY.

Emphasis on novels and lyric poetry.

*Open to students who have completed course 101 or equivalent. Three hours a week for a year.* Miss LA PIANA.

## 202. HISTORY OF ITALIAN LITERATURE IN THE NINETEENTH CENTURY.

Stress is laid upon the development of the Italian drama.

*Open to students who have completed course 101 or equivalent. Three hours a week for a year.* Mrs. CASTIGLIONE.

## 205 (1). COMPOSITION.

A study of the most difficult parts of Italian grammar and syntax. Free composition with special attention to letter writing. The subject matter will deal chiefly with contemporary Italy.

*Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for the first semester.* Mrs. CASTIGLIONE.

## 206 (2). CONVERSATION.

Dealing especially with the various aspects of Italian contemporary life to give to the student a larger vocabulary and correct pronunciation, ease and freedom of expression and clear phrasing. The geographical and historical background is illustrated with slides.

*Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for the second semester.*

MRS. CASTIGLIONE.

## 301.\* DANTE AND HIS TIME.

The study of the outstanding characteristics of the Middle Ages and of its writers. The reading of Dante's *Divina Commedia* and *Vita Nuova* in the original and in full.

*Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for a year.*

MISS BOSANO.

## 305 (2).\* COMPOSITION.

A comparative study of Italian grammar with reference to Latin and to the Romance languages. A careful analysis of passages from masterpieces. Translation from English into Italian. Free composition with special attention to essays and literary criticism.

*Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the second semester.*

MISS LA PIANA.

## 306 (1).\* CONVERSATION.

Italian civilization as seen in the development of art and philosophy; to give to students a further training in diction and in expressing themselves freely on a given subject.

*Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the first semester.*

MISS LA PIANA.

## 307.\* DRAMA AND SHORT STORIES IN THE ITALIAN RENAISSANCE.

Emphasis on the plays of Poliziano, Guarini, Machiavelli, Ariosto, Tasso, Aretino, and Lasca, and on the short stories of Boccaccio and Bandello.

*Open on consultation with the instructor to juniors and seniors who have completed or are taking course 301. Three hours a week for a year.*

MISS BOSANO.

## 308.\* HISTORY AND EPICS IN THE ITALIAN RENAISSANCE. (Not offered in 1938-39.)

A detailed study of Machiavelli's and Guicciardini's works, considered as literary masterpieces, and the poems of Pulci, Boiardo, Ariosto, and Tasso.

*Open on consultation with the instructor to juniors and seniors who have completed or are taking course 301. Three hours a week for a year.*

MISS BOSANO.

## 350. RESEARCH OR INDIVIDUAL STUDY.

By consultation with the department students may arrange for from one to

\* It will be the privilege of students in courses 301, 305, 306, 307, and 308 to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearson Plimpton Collection.

three hours of individual work. Permission for this must be obtained before handing in electives.

*Open to juniors and seniors who have completed or are taking a course of grade III in the department. One to three hours a week for a year.*

#### DIRECTIONS FOR ELECTION

A major in Italian is generally based on course 101. It is very desirable that students majoring in Italian should have had or be taking a college course in one of the ancient or modern languages, and should elect such courses in History and Art as deal in whole or in part with Italian civilization and culture. Such courses will be required of students working for honors.

Students taking a twelve-hour major should include courses 102, 201 or 202, 301, 305, 306, 307.

Students taking a fifteen-hour major should include courses 102, 201, 202, 301, 305, 306, 307.

NOTE:—Course 101 may not count toward the major.

#### GENERAL EXAMINATION

The general examination for students taking a major in Italian will be based largely on the work done in the courses of grade II and III, and will be of such a character as to bring out the interrelation of these courses (of grade II and III), bearing in mind that while some appear to be more closely articulated than others, they all make their contribution to the cultural development of Italian life. Some of the questions will have a direct bearing on the content of the courses, while others will be of a more general character, and will best be answered by opinions expressed and deductions drawn.

The results of the elementary work will appear in the degree of accuracy and ease of expression shown in the written portion of the examination, but especially in translating from English into Italian and vice versa.

The chairman of the department will be ready to answer any questions that the above statement has not made clear.

#### LATIN

*Professor: ANNA BERTHA MILLER, PH.D. (Chairman)*  
*Associate Professors: HELEN HULL LAW, PH.D.*

*DOROTHY MAE ROBATHAN, PH.D.*

*Assistant Professor: MARGARET ELIZABETH TAYLOR, PH.D.*

#### 101. THE GOLDEN AGE OF LATIN LITERATURE.

The reading will be chosen from the following topics: studies in mythology from Ovid's *Metamorphoses* or *Fasti*; legendary Rome in Livy's *History*, Bk. I; Cicero's philosophy in the *De Senectute* or *De Amicitia*; lyric verse in the shorter poems of Catullus and the *Odes* and *Epodes* of Horace.

*Open to students who have completed four entrance units of Latin, or course 103 or 106, and by special permission to those who have completed only three entrance units including one of Vergil. Three hours a week for a year.*

MISS TAYLOR, MISS ROBATHAN.

103. VERGIL'S *Aeneid*.

The Roman Epic and its place in literature. Reading based chiefly on books I-VI, with selections from the later books.

*Open to students who have completed only three entrance units of Latin, and to especially recommended students who have completed two units, or course 107. Three hours a week for a year.*

MISS TAYLOR.

## 104 (1). ROMAN LIFE AND CUSTOMS.

A study of Roman civilization through the medium of its social conditions, religious customs, education, amusements, buildings, etc. Lectures will be illustrated by lantern slides, photographs, coins, and other Roman antiquities. The required reading will be in English.

*Open to all undergraduates. Three hours a week for the first semester.*

MISS MILLER.

## 105 (2). LATIN LITERATURE IN ENGLISH TRANSLATIONS.

The most important poets and prose writers will be read in translation, with emphasis upon those authors who have especially influenced modern forms of literature. Lectures on the development of Latin literature will include also the later writers of the empire who contributed largely to the thought of the Middle Ages.

*Open to all undergraduates. Three hours a week for the second semester.*

MISS MILLER.

## 106. MEDIÆVAL LATIN.

Readings from Latin writers in the fields of literature, history, and philosophy of the Middle Ages. Selections include Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, John the Scot, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum*, religious drama, songs of the Goliards, and church hymns. Only so much attention will be given to linguistic study as the reading requires.

*Open to students who have completed three or more entrance units of Latin, and to especially recommended students who have completed two units, or course 107. Three hours a week for a year.*

MISS MILLER.

## 107. BEGINNING LATIN. (Offered on request.)

The aim of the course is to acquire in one year sufficient knowledge of grammar and syntax to enable the student to read Latin authors. Reading will include simple Latin and selections from classical writers.

*Open to students who do not present Latin for admission. Three hours a week for a year.*

MISS LAW, MISS ROBATHAN.

## 202 (1). VERGIL.

Selections from the *Eclogues*, *Georgics*, and *Aeneid*. Study of the poet's early work in pastoral romance, and his later development through didactic epic, the *Georgics*, to the heroic epic of the *Aeneid*.

*Open to students who have completed course 101. Three hours a week for the first semester.*

MISS TAYLOR.

## 203 (1). COMEDY. PLAUTUS AND TERENCE.

Careful study of two plays followed by the rapid reading of others. The course includes a study of the sources of Latin comedy, its linguistic and literary features, and its influence upon later literature.

*Open to students who have completed course 101. Three hours a week for the first semester.* MISS ROBATHIAN.

## 204 (2). TACITUS AND PLINY.

The *Agricola* of Tacitus, with selections from the *Histories*; Pliny's *Letters*. Reports on special topics concerned with the literary style and social background of these authors.

*Open to students who have completed course 101. Three hours a week for the second semester.* MISS MILLER.

## 205 (2). CICERO'S PHILOSOPHICAL WORKS.

Selections from the *Tusculan Disputations*, the *De Officiis* and other works.

*Open to students who have completed course 101. Three hours a week for the second semester.* MISS TAYLOR.

## 206. LATIN WRITING.

Practice in turning connected English passages into Latin. Emphasis is placed upon accuracy of expression and correct idiom.

*Open to students who have completed course 101. One hour a week for a year.* MISS TAYLOR.

## 213 (1). STUDIES OF CONTINUING TYPES IN GREEK, LATIN, AND ENGLISH LITERATURE.

For description and prerequisites, see English Literature 213.

## 302 (1). SATIRE. HORACE AND JUVENAL.

Some attention is paid to the origin and development of satire as a literary form. The chief emphasis is placed upon the satires of Horace and Juvenal, but the work of other Roman satirists is studied by special topics and reports. Sight reading in Martial.

*Open to students who have completed a year of grade II. Three hours a week for the first semester.* MISS ROBATHIAN.

## 303 (1). LATIN EPIGRAPHY.

Selected inscriptions will be studied both for their form and for their content as sources for the study of Roman public and private life.

*Open to students who have completed a year of grade II. Three hours a week for the first semester.* MISS ROBATHIAN.

## 304 (2). TOPOGRAPHY OF ROME.

A study is made of the early history of the city, its development, the construction and furnishings of typical public and private buildings in Rome and in provincial towns. Such study of the material surroundings is connected with the literary and social development of the Roman people, and is introductory to further work in classical archaeology.

*Open to students who have completed a year of grade II. Three hours a week for the second semester.* MISS ROBATHAN.

**306 (2). STUDIES IN ROMAN RELIGION.**

The subject of the course is primarily the changing religious experience of the Roman Republican period, but in special topics the study of the influence of Oriental cults is included. Readings from the sources, especially from Livy, Cicero, and Ovid, with class discussions and lectures.

*Open to students who have completed a year of grade II. Three hours a week for the second semester.* MISS TAYLOR.

**307 (2). PROSE LITERATURE OF THE LATER EMPIRE. (Not given in 1938-39.)**

The Latin novel, its origin and development: Petronius, Apuleius. The Christian apology, a study of the conflict of pagan and Christian thought: Minucius Felix, Tertullian. The course may be given in one weekly appointment.

*Open to students who have completed a year of grade II. Three hours a week for the second semester.* MISS MILLER.

**308. LATIN WRITING. ADVANCED COURSE.**

*Open at the discretion of the instructor to students who have completed course 206. One hour a week for a year.* MISS TAYLOR, MISS ROBATHAN.

**309 (1). PROSE LITERATURE OF THE EARLY EMPIRE. (Not given in 1938-39.)**

History: Livy, Tacitus, Suetonius, Velleius Paterculus. Philosophy: Seneca. Reading based on choice of topics. The course may be given in one weekly appointment.

*Open to students who have completed a year of grade II. Three hours a week for the first semester.* MISS MILLER.

**310 (1). POETRY OF THE REPUBLIC.**

Some study is given to the beginning of Latin poetry and the earlier poets, but the main emphasis is placed upon the poets of the Ciceronian Age, Catullus and Lucretius.

*Open to students who have completed a year of grade II. Three hours a week for the first semester.* MISS MILLER.

**312 (2). POETRY OF THE EMPIRE.**

The aim of this course is to secure an acquaintance with representative poets of the period, and to show the interest and the value of the later Latin poetry. Rapid reading without translation is one of the features of this course.

*Open to students who have completed a year of grade II. Three hours a week for the second semester.* MISS ROBATHAN.

**321. HISTORY OF LATIN LITERATURE. (Not given in 1938-39.)**

The design of this course is to enable a graduate student to study the authors and periods and forms of literature which were not included in her undergraduate work, and thus to complete the work done in individual courses by a comprehensive view of Latin literature as a whole and its place in world literature. The

course demands much independent work and is intended to meet individual needs.

*Open to graduate students only. One to three hours a week for a year.*

THE TEACHING STAFF.

#### DIRECTIONS FOR ELECTION

A major in Latin is based on course 101. Any other grade I course may be counted in a fifteen-hour major except course 107. Course 213 may not be counted toward a major in Latin. Students intending to major in Latin are advised to take at least one course in Greek, and a course in Roman History. Art 209 and 320 may be counted toward a fifteen-hour major in Latin by students who are at the same time taking a course of grade III in Latin. No students are recommended as teachers of Latin who have not had at least one full course of grade III and course 206.

#### GENERAL EXAMINATION

Every student who presents herself for the general examination in Latin shall be required to show:

(1) Her ability to use the language by translation at sight of passages in prose and verse.

(2) A general knowledge of the history of Latin literature from its beginnings through the reign of Trajan, and of as much of the historical and social background as is necessary for understanding the literature.

(3) Familiarity with the specific fields of literature which have been covered in the courses elected by the individual student.

## MATHEMATICS

*Professors:* MABEL MINERVA YOUNG, PH.D. (Chairman)  
LENNIE PHOEBE COPELAND, PH.D.

*Associate Professor:* MARION ELIZABETH STARK<sup>2</sup>, PH.D.

*Assistant Professor:* HELEN GERTRUDE RUSSELL, PH.D.

*Instructor:* MELITA AUGUSTA HOLLY<sup>4</sup>, M.A.

Course 106 is for students who have not had a course in trigonometry, 107 is for those who have spent a half-year in studying this subject.

Students should consult the announcements of the departments of Astronomy and Physics for courses for which mathematics is prerequisite.

#### 101 (1). ELEMENTARY ALGEBRA. (Not given in 1938-39.)

Quadratic equations; binomial theorem for positive integral exponents; arithmetic and geometric series; simultaneous linear equations in three unknowns; simultaneous quadratic equations with graphs; exponents and radicals; logarithms including computation by five-place tables and applications to the trigonometry of the right triangle; limits; the derivative of a polynomial.

*Open to students who present two units in mathematics for admission. Not open to students who have completed three units of mathematics in secondary school. Three hours a week for the first semester.*

MISS HOLLY.

<sup>2</sup> Absent on leave for the first semester.

<sup>4</sup> Appointed for the first semester only.

**102 (2). THE THEORY OF EQUATIONS, TRIGONOMETRY, INTRODUCTION TO ANALYTIC GEOMETRY.** (Not given in 1938-39.)

Elementary theory of equations with applications to geometry; a brief course in trigonometry; determinants; the analytic geometry of the straight line.

*Open to students who have completed course 101. Three hours a week for the second semester.*

**106. TRIGONOMETRY, INTRODUCTION TO CALCULUS, ANALYTIC GEOMETRY.**

Algebraic trigonometry and the solution of oblique triangles. An introduction to the theory of limits and derivatives. The study of a polynomial in one variable—its roots, maximum and minimum values, and its graph. Determinants. Analytic geometry of the straight line and conic sections, polar coördinates, translation of axes. This course aims to give students some acquaintance with advanced methods as well as advanced subjects. Earlier work in algebra is extended, algebra is applied to geometry, and new methods are given for the study of the graph of a function.

*Open to students who present three units in mathematics for admission. Three hours a week for a year.*

MISS YOUNG, MISS COPELAND, MISS STARK, MISS HOLLY.

**107. INTRODUCTION TO CALCULUS, ANALYTIC GEOMETRY.**

This course is similar to 106, except that it assumes an acquaintance with trigonometry. This makes it possible to carry farther the work in analytic geometry.

*Open to students who present four units in mathematics for admission, or have had a course in trigonometry equivalent to that outlined by the College Entrance Examination Board. As the work covered by the fourth unit is not uniform in all schools, students in this course will as far as possible be given individual instruction. Three hours a week for a year.*

MISS COPELAND

**201. ANALYTIC GEOMETRY AND CALCULUS.** (Not offered in 1938-39.)

The analytic geometry of the conic sections; selected topics in differential and integral calculus with applications.

*Open to students who have completed courses 101 and 102. Three hours a week for the year.*

**202. DIFFERENTIAL AND INTEGRAL CALCULUS.**

A study of derivatives and rates of change, with applications to the conic sections and curves of higher order, and to series; integration as the inverse of differentiation and as a process of summation, with some work on the lengths of curves, on areas and on volumes.

*Open to students who have completed course 106 or 107. Three hours a week for a year.*

MISS STARK, MISS RUSSELL, MISS HOLLY.

**203 (2). HISTORY OF ELEMENTARY MATHEMATICS.** (Not given in 1938-39.)

The evolution of the fundamental concepts of mathematics. Great mathematicians and their chief contributions to elementary mathematics. A brief survey of modern developments in mathematics and its literature. A standard

text is used, supplemented by lectures and short reports chiefly based upon rare old books in the mathematical library.

*Open to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for the second semester.* MISS COPELAND.

**204. INTRODUCTION TO THE THEORY OF STATISTICS.**

Statistical methods, with special emphasis on the use of elementary mathematics in the development of theory and in practice.

*Open to students who have completed course 102, 106 or 107. One period of lecture with the equivalent of one laboratory period a week, counting one hour a week for a year. This course counts toward the degree, but not toward a major in the department.* MISS YOUNG.

**206. DESCRIPTIVE GEOMETRY I.** (Not given in 1938-39.)

The theory and practice of the representation of geometric figures. The use of two or more planes of projection in representing lines, surfaces, and solids. Intersections and shadows.

*Open to students who have completed or are taking course 201 or 202, and, by special permission, to a limited number who have completed course 106 or 107. All must have a knowledge of the elements of solid geometry. The department will give directions for gaining readily the necessary acquaintance with this subject. One period of lecture with one period of laboratory a week, counting one hour a week for a year.* MISS STARK, MISS HOLLY.

**208 (2). DESCRIPTIVE GEOMETRY II.**

Special methods for the construction of curves and solids. Intersections of curved surfaces. Different types of perspective.

*Open to students who have completed course 206. Two periods of lecture with the equivalent of two laboratory periods a week, counting two hours a week for the second semester.* MISS STARK.

**302. FUNCTIONS OF A REAL VARIABLE.**

The number system of algebra; continuity and other properties of functions; convergence of series; representation of functions by power series; theory of integration. Infinite products, infinite integrals, Fourier series, and other allied subjects.

*Open to students who have completed course 202. Three hours a week for a year.* MISS STARK, MISS RUSSELL.

**303 (1).\* DIFFERENTIAL EQUATIONS.**

An introductory course in ordinary and partial differential equations.

*Open to students who have completed course 201 or 202. Three hours a week for the first semester.* MISS COPELAND.

**304 (2). INTRODUCTION TO MODERN ALGEBRAIC THEORY.**

Determinants, matrices, systems of linear equations, symmetric functions, eliminants, resultants, discriminants, invariants and covariants, quadratic forms.

\*Astronomy 302 or Physics 305 if preceded by Mathematics 303, may be counted toward a major in mathematics.

*Open to students who have completed course 201 or 202. Three hours a week for the second semester.* MISS RUSSELL.

**305 (1). INTRODUCTION TO DIFFERENTIAL GEOMETRY.** (Not offered in 1938-39.)

Calculus applied to geometry of two and three dimensions, including a study of twisted curves.

*Open to students who have completed course 202. Three hours a week for the first semester.* MISS RUSSELL.

**306. MODERN SYNTHETIC GEOMETRY.**

Fundamental concepts underlying modern geometry; harmonic forms; projective and metrical properties of forms of first and second orders in plane and in space; ruled surfaces of second order; inversion.

*Open to students who have completed course 201 or 202. Three hours a week for a year.* MISS YOUNG.

**307. ADVANCED GEOMETRY.** (Not given in 1938-39.)

An introduction to the study of plane curves. Both algebraic and synthetic methods will be used. The theory of the conic will be extended, and curves of the third order studied. Lectures, reading, and discussion.

*Open to students who have completed course 306, and have completed or are taking three additional hours of grade III. Three hours a week for a year.* MISS YOUNG.

**308. FUNCTIONS OF A COMPLEX VARIABLE.**

Elementary treatment of analytic functions. Infinite series and products, with applications to elliptic functions.

*Open to students who have completed course 302. Three hours a week for a year.* MISS COPELAND.

#### DIRECTIONS FOR ELECTION

For a major or minor or for honors in mathematics course 202 is required as a basis.

A major must include at least six hours of grade III.

The ability to read French, German, or Italian is required in all grade III courses. A reading knowledge of more than one of these languages is desirable.

Only those students who have completed satisfactorily at least three hours of grade III in the department will be recommended as teachers of mathematics.

#### SPECIAL COURSE

Not counted in the major: Course 204.

#### GENERAL EXAMINATION

Modern mathematics is a many sided subject, including fields widely diverse in nature. Work in each of these fields, however, requires as a basis an understanding of the fundamental principles and methods of analytic geometry and the differential and integral calculus. This implies skill in the use of elementary algebra, geometry, and trigonometry as tools. Each student majoring in mathematics is therefore expected to spend two years in gaining acquaintance with the elements of these essential subjects. On this foundation rests more advanced

work of three types: analysis, geometry, and applied mathematics. The work offered by the department in these fields is as follows:

Analysis: Courses 302, 303, 304, 308.

Geometry: Courses 206, 208, 305, 306, 307.

Applied Mathematics: Courses 206, 208, 303, Physics 305, Astronomy 302 or 303.

Course 203, History of Mathematics, is supplementary to all these fields.

The general examination will include some questions on the fundamental subjects and some on the more advanced subjects, with special emphasis on the interrelations between the courses.

## MUSIC

<i>Professor:</i>	HOWARD HINNERS, B.A. (Chairman)
<i>Assistant Professor:</i>	EDWARD BARRY GREENE, B.A.
	DIRECTOR OF CHOIR
<i>Lecturer:</i>	HUBERT WELDON LAMB, B.A.
<i>Visiting Lecturer:</i>	NADIA BOULANGER <sup>5</sup>
<i>Research Librarian:</i>	HELEN JOY SLEEPER <sup>2</sup> , M.A., MUS.B.
<i>Instructors:</i>	MARGARET MARION MACDONALD, B.A.
	GROSVENOR WILLIAM COOPER, M.A.
<i>Assistants:</i>	MALCOLM HAUGHTON HOLMES, B.S.
	JANE BURGESS, B.A.

(For list of Instructors in Practical Music, see page 136)

### I. MUSICAL THEORY

The courses in theory and history are open to all students without regard to previous musical knowledge, and count toward the B.A. degree. The history and theory courses are subject to no separate tuition fee.

#### 101. FUNDAMENTALS OF MUSIC.

Rudiments, major, minor and ecclesiastical modes, intervals, chord construction, harmonic and formal analysis of examples from the classical period. Drill in clef-reading and in the playing of cadences. Intensive work in ear-training and sight-singing.

*Open to students who do not offer harmony for admission. This course or course 102 or, by special permission, course 201 or 203 or 208 is required of all freshmen who elect practical music. Not to be counted toward a major. Four periods a week, one of lecture and three of dictation, counting three hours a week for a year.*

MISS MACDONALD.

#### 102. ELEMENTARY MUSICAL ANALYSIS.

An analytical study of the elements of music and the principles of harmony as exemplified in the music of the eighteenth and early nineteenth centuries. The work differs from that of course 101 in that the emphasis is on analysis rather than ear-training. This course is designed to prepare students for the study of the history of music, and is intended for those who do not propose to major in music but who wish to take more than one course in the department.

*Open to students who do not offer harmony for admission. This course may be taken to fulfill the theory requirement for practical music. It does not serve as a prerequisite for course 201 or 203. Not to be counted toward a major. Students*

<sup>2</sup> Absent on leave for the first semester.

<sup>5</sup> Appointed for the second semester only.

*taking this course may not also elect either course 101 or 206. Three hours a week for a year.*

MISS MACDONALD.

**201. HARMONY.**

Major and minor triads and their inversions, elementary modulation, suspensions and other non-harmonic tones. Harmonization of simple melodies and basses, figured and unfigured. Dictation and analysis.

*Open to students offering harmony for admission and to those who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. All candidates for the course must have an elementary knowledge of piano or organ playing sufficient to enable them to play simple hymn-tunes at sight. Three hours a week for a year. MR. HINNERS, MISS BOULANGER.*

**203. ELEMENTARY COUNTERPOINT.**

Strict counterpoint and canon. Composition in two and three voices in the styles of the sixteenth and seventeenth centuries. Analysis.

*Open to students offering harmony for admission and to those who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. Three hours a week for a year. MR. LAMB.*

**205. SOUND (Physics 205. See Department of Physics).**

**206. INTRODUCTION TO MUSICAL LITERATURE.**

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music is required.

*Open only to juniors and seniors who have had no other course in the department. Not to be counted toward a major. Three hours of lecture and one section meeting a week, counting three hours a week for a year. MR. GREENE, MR. HOLMES.*

**208. MUSIC OF THE EIGHTEENTH AND NINETEENTH CENTURIES.**

A survey course presenting the characteristic features of various styles as represented in the works of leading composers from Bach to Debussy. An attempt will be made to show relationships between the musical developments and contemporary social and cultural aspects of the two centuries.

*Open to students offering harmony for admission and to those who have completed course 101 or 102. Three hours a week for a year. MR. COOPER.*

**303. ADVANCED COUNTERPOINT AND COMPOSITION. (Not given in 1938-39.)**

Counterpoint in four and five voices. Introduction to the fugue. Composition in the simpler contrapuntal forms of Bach and his contemporaries.

*Open to graduate students and to approved undergraduates who have completed courses 203 and 310 and, by special permission, to students who are taking 310. Three hours a week for a year. MR. LAMB.*

**305 (2). MEDIÆVAL AND RENAISSANCE MUSIC.**

Gregorian chant and early polyphony. The rise of the sixteenth century style to its culmination in the works of Palestrina and Lassus.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208. Three hours a week for the second semester. MR. HINNERS.*

## 309 (1). THE PERIOD OF BACH AND HANDEL.

For 1938-39 the subject will be the concerto grosso, and the solo and ensemble sonata.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208.*  
*Three hours a week for the first semester.* MR. LAMB.

## 310. ADVANCED HARMONY.

Dominant and secondary seventh and ninth chords, altered chords and modulation to remote keys. Harmonization of more extended melodies and basses, involving some of the elementary principles of musical composition. Advanced dictation, keyboard work, and analysis.

*Open to juniors and seniors who have completed course 201.* *Three hours a week for a year.* MR. HINNERS.

314. SEMINAR: DRAMATIC MUSIC OF THE BAROQUE AND CLASSICAL PERIODS.  
 (Not offered in 1938-39.)

Rise of the opera, cantata, and oratorio. The evolution of dramatic style in secular and sacred music from the opening of the seventeenth century to the death of Mozart.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208.*  
*Three hours a week for a year.* MR. HINNERS.

## 315. INSTRUMENTATION. (Not offered in 1938-39.)

The technique, timbres and ensemble of the instruments of the modern orchestra. Drill in transposition by clef and practice in simple score-reading. Elementary orchestration. The mechanism and scope of the various instruments will be illustrated by members of the Boston Symphony Orchestra.

*Open to graduates and to approved juniors and seniors who have completed courses 201, 203, and 310; and by special permission to students who have completed course 201, and 203 or 310, and are taking 310 or 203.* *Three hours a week for a year.* MR. LAMB.

## 317 (2). SEMINAR: HAYDN AND MOZART AND THEIR PREDECESSORS.

For 1938-39 the subject will be the development of the classical concerto from C. P. E. Bach through Mozart.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208.*  
*Three hours a week for the second semester.* MR. LAMB.

## 318 (1). SEMINAR: BEETHOVEN AND HIS CONTEMPORARIES.

For 1938-39 the subject will be the piano-*orte* compositions of Beethoven.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208.*  
*Three hours a week for the first semester.* MR. LAMB.

## 319 (2). SEMINAR: THE ROMANTIC STYLE FROM 1840 TO 1900.

For 1938-39 the subject will be the symphony in Germany after Beethoven. A survey of the most significant symphonic compositions of Mendelssohn, Schumann, Brahms, Bruckner, and Mahler.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208.*  
*Three hours a week for the second semester.* MR. LAMB.

## 320 (2). MUSIC OF THE BAROQUE PERIOD. (Not given in 1938-39.)

The evolution of keyboard music from its origins in the sixteenth century through Bach and Handel.

*Open to juniors and seniors who have completed course 201 or 203 or 207 or 208. Three hours a week for the second semester.*

MR. HINNERS.

## 322 (2). SEMINAR: ADVANCED THEORY AND COMPOSITION.

Individual work in harmony, counterpoint, fugue, or free composition.

*Open only by special permission to seniors and graduate students who have completed courses 201, 203, 207 or 208 and 310. Three hours a week for the second semester.*

MISS BOULANGER.

## 350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, graduate students may arrange for directed study in theory, composition, or the history of music.

*Three hours a week for a semester or for a year.*

## II. PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)

*Instructors in Practical Music:* GLADYS AVERY LEBERT (Voice)

YVES CHARDON (Violoncello)

RICHARD BURGIN (Violin)

DAVID BARNETT, B.A. (Piano)

CARL WEINRICH, B.A. (Organ)

MALCOLM HAUGHTON HOLMES, B.S. (Conductor of Orchestra and Director of Chamber Music)

Freshmen may not elect instrumental or vocal music without course 101 or 102 or, by special permission, course 201 or 203 or 208. Work in practical music is not credited toward the B.A. degree, and there is an extra charge for such instruction.\*

Instruction is provided in Voice, Piano, Organ, Violin, and Violoncello, and special arrangements may be made for instruction on other instruments. Lessons are thirty minutes in length. Instruction in piano, however, is given both in classes and by individual lessons. In the case of elementary students, class instruction predominates. For more advanced students, the group work is supplementary and voluntary. Advanced string players and pianists are also eligible, without additional charge, for group instruction in the performance of chamber music.

Practical music, subject to the restrictions above and under paragraph (a) below, is an elective, and students should notify the department of their election of the subject in the usual manner and at the proper time. It is offered to all students as stated below:

(a) Candidates for the B.A. degree may take practical music, provided that they obtain each year the permission of their Dean as well as of the chairman of the department; they must also take a full course in Musical Theory for each year's work in practical music until they have completed two three-hour courses in Musical Theory. After that, they may elect practical music without also electing a theory course.

\* The charge for instruction for the college year in Piano, Organ, Violin, Violoncello, and Voice, on the basis of one lesson a week, is \$75.00; for two lessons a week, \$150.00. The charge for the use of the piano for practice purposes is at the rate of \$15.00 for one period daily for the college year; for the organ in Music Hall, \$20.00. The fee for vocal or instrumental music is payable in advance in two equal installments, and is not subject to return or deduction.

(b) Graduates of Wellesley College or of other institutions may make special arrangement for instrumental or vocal lessons.

(c) Permission to practice in Music Hall cannot be given to students not regularly registered in the department.

(d) Students whose progress is not satisfactory may be required to discontinue their lessons.

#### DIRECTIONS FOR ELECTION

For a twelve-hour major, the following courses are required: 201, 203, 208, 310.

For a fifteen-hour major, the following courses are required: 201, 203, 208, 310, and any grade III history course.

Course 101, which does not count toward a major, is a prerequisite to either of the above sequences.

Suggested correlative subjects for students majoring in music:

European History, Literature, Art, Physics 205.

Students majoring in music should take their examinations to test their reading knowledge of a foreign language in either German or French. German, French, Italian, and Latin are, in the order named, important for graduate work in music.

#### GENERAL EXAMINATION

The general examination will be a test of the student's knowledge of (1) musical theory (harmony, counterpoint, and composition); and (2) the history of music.

Required questions will deal with courses taken by all the major students. Questions on other courses will be wholly or partly optional.

## PHILOSOPHY AND PSYCHOLOGY

*Professors:* THOMAS HAYES PROCTER, Ph.D.,  
EDNA HEIDBREDER, Ph.D. (Chairman)

MARY LOWELL COOLIDGE,<sup>1</sup> Ph.D.

*Associate Professor:* MICHAEL JACOB ZIGLER, Ph.D.

*Assistant Professor:* EDITH BRANDT MALLORY, Ph.D.

*Instructors:* VIRGINIA ONDERDONK, B.A.

JOHN GOHEEN, Ph.D.

ELIZABETH FEHRER, Ph.D.

*Assistants:* GRACE ALLERTON ANDREWS, M.A.

THELMA GORFINKLE ALPER, M.A.

ALFRED HAROLD HOLWAY, Ph.D.

MARY CANFIELD WHITMAN, B.A.

YVETTE DOROTHY GITTLESON, B.A.

#### I. PHILOSOPHY

##### 102 (1) or (2). INTRODUCTION TO PHILOSOPHY.

The aim of this course is to stimulate philosophical thinking, to give the student some acquaintance with metaphysical problems and some training in method. The discussion will be based on contemporary texts, supplemented by reference to classical authors.

*Open to sophomores, juniors, and seniors and, by special permission, to approved freshmen. Three hours a week for a semester. Offered in both semesters.*

MR. PROCTER, MISS ONDERDONK, MR. GOHEEN.

##### 107. INTRODUCTION TO PHILOSOPHY THROUGH GREEK THOUGHT.

A year course based on the material presented by the Greek thinkers. After a

<sup>1</sup> Absent on leave.

discussion of the various Pre-Socratic schools, special attention is given to Plato's *Apology*, *Crito*, *Phaedo* and *Republic* and to Aristotle's *Ethics* and to parts of the *Metaphysics*. Texts: Bakewell, *Source Book in Greek Philosophy*; Plato, *Selections* (Demos); Plato, *The Republic*; Aristotle, *Selections* (Ross). Supplementary reading.

*Open to sophomores, juniors, and seniors and, by permission, to approved freshmen. Three hours a week for a year.* MR. PROCTER.

**108. LOGIC.**

Training in argument and in logical criticism through the examination of fallacious reasoning compared with valid arguments. The emphasis of the course is on deductive logic, supplemented by some study of the principles of inductive logic and scientific methodology. The course is designed to meet the practical needs of the student.

*Open to sophomores, juniors, and seniors and, by permission, to approved freshmen. One hour a week for a year.* MISS ONDERDONK.

**203 (1). AESTHETICS.**

A study of philosophical problems concerning the nature of beauty, of artistic creation, and of standards in criticism. Some attention will be given to the relation of æsthetic to other values. The reading will be partly of the writings of such classical philosophers as Plato and Schopenhauer, and partly of those of such contemporary writers as Croce and Santayana.

*Open to sophomores who have completed a course in Philosophy, and to juniors and seniors without prerequisite. Three hours a week for the first semester.* MR. GOHEEN.

**205 (2). ETHICS.**

Study and criticism of representative ethical theories. The course will not be an historical one, but it will include discussion of the writings of such older moralists as Aristotle and Kant as well as those of later and contemporary philosophers.

*Open to sophomores who have completed a course in Philosophy, and to juniors and seniors without prerequisite. Three hours a week for the second semester.* MR. GOHEEN.

**211 (1). INTRODUCTION TO PHILOSOPHY THROUGH THE PROBLEMS OF RELIGION.**

A brief historical and psychological study of the religious consciousness leading to a discussion of the nature and validity of religious experience in contrast with other types of experience and of the philosophical problems involved in this contrast. Reference texts include: Moore, *The Birth and Growth of Religion*; Augustine, *Confessions*; Thomas Aquinas, *Summa Theologica*; James, *Varieties of Religious Experience*; Whitehead, *Adventures of Ideas*, *Religion in the Making*; Russell, *A Free Man's Worship*.

*Open to sophomores who have completed a course in Philosophy, and to juniors and seniors without prerequisite. Three hours a week for the first semester.* MR. GOHEEN.

**214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY.**

First semester: The philosophical systems of Spinoza, Leibniz, Locke, and

Hume. Second semester: The Kantian philosophy and its developments in modern thought. Texts: Spinoza, *Ethics*; Leibniz, *Monadology* and *Discourse on Metaphysics*; Hume, *Treatise of Human Nature*; Kant, *Critique of Pure Reason*, *Metaphysic of Morality*, and *Critique of Practical Reason*; Hegel, *Logic of the Encyclopedia*.

*Open to sophomores who have completed a course in Philosophy, and to juniors and seniors without prerequisite. Open also, by special arrangement, to graduate students. Three hours a week for a year.*

MISS ONDERDONK.

**306 (1). ADVANCED LOGIC.**

A study of modern developments of logic including a discussion of the nature of a deductive system, the logic of classes, the calculus of propositions, and the logic of propositional functions.

*Open to juniors and seniors who have completed or are taking a grade II course in Mathematics or Philosophy. Three hours a week for the first semester.*

MISS ONDERDONK.

**307. THE HISTORY OF GREEK PHILOSOPHY.**

An advanced study of Greek Philosophy, offering more extended and more detailed readings in Plato (with emphasis on the later dialogues) and also in Aristotle, the Stoics, Epicureans, and Neo-Platonists. In addition to the texts of the Greek philosophers, use is made of Robin's *Greek Thought*.

*Open to juniors and seniors who have completed four and one-half hours in the department, of which three must be in Philosophy, and, by special permission, to other seniors majoring in related departments. Open also to approved graduate students. Not open to students who have taken course 107. Three hours a week for a year.*

MR. PROCTER.

**312 (2). STUDIES IN PHILOSOPHIES OF THE LAST HALF CENTURY.**

The course will consist of papers and discussions based on representative readings from the writings of Bradley, Royce, Bergson, and Whitehead. This course may be given in extra schedule hours.

*Open to juniors and seniors who have completed course 214 or four and one-half hours in Philosophy including a course in Greek Philosophy, and to graduate students. Three hours a week for the second semester.*

MR. GOHEEN.

**325 (1). STUDY OF NATURALISM, PRAGMATISM, AND REALISM IN THE LAST HALF CENTURY.**

Study of representative writings of such philosophers as James, Dewey, Russell, Alexander, Santayana, etc.

*Open to juniors and seniors who have completed course 214 or four and one-half hours in Philosophy including a course in Greek Philosophy, and to graduate students. Three hours a week for the first semester.*

MR. PROCTER.

**350. RESEARCH OR INDIVIDUAL STUDY.**

*Open to graduate students and seniors by special permission. One to three hours a week for a year.*

**II. PSYCHOLOGY**

**101 (1) or (2). BRIEF INTRODUCTORY COURSE IN PSYCHOLOGY.**

This is a semester course in beginning psychology. It is designed to secure to

students a survey of the field of general psychology, to provide a psychological basis for their study of philosophy, of sociology, and of education and to fit them for more advanced psychological work.

*Open to sophomores, juniors, and seniors and, by special permission, to approved freshmen. Not open to students who have completed course 103. Three hours a week for a semester. Offered in both semesters.*

Lecturers: MRS. MALLORY, MR. ZIGLER, MISS FEHRER.

Conference Instructors: MRS. ALPER, MR. HOLWAY.

#### 103. INTRODUCTORY COURSE IN PSYCHOLOGY.

This is a year course in beginning psychology. It deals with the same topics treated in Psychology 101, but develops them more fully. In particular, more attention is given to the more complex psychological processes.

*Open to sophomores, juniors, and seniors who have not taken course 101 and, by special permission, to approved freshmen. Three hours a week for a year.*

Lecturer: MISS HEIDBREDER. Conference Instructor: MISS WHITMAN.

#### 207 (2). GENETIC PSYCHOLOGY.

This course presents the characteristic changes in conscious attitude and in behavior tendencies which take place in normal individual development. Attention is given both to the instinctive or unlearned traits and to the differentiating effects of environment and training. The material is primarily that of child psychology, but is supplemented by data drawn from the study of animals and of primitive peoples.

*Open to seniors, juniors, and by permission to sophomores, who have completed course 101 or 103. Three hours a week for the second semester. MRS. MALLORY.*

#### 209 (1) or (2). EXPERIMENTAL PSYCHOLOGY, LABORATORY COURSE.

Every student is expected to perform one or two typical experiments in each of the main fields of psychological investigation. The laboratory work is supplemented by occasional lectures. This course is designed to train the student in psychological method.

*Open to students who have completed course 101 or 103. Six periods a week of laboratory work, counting three hours a week for a semester. Offered in both semesters.*

MR. ZIGLER, MRS. MALLORY, MRS. ALPER,  
MISS FEHRER, MR. HOLWAY, MISS WHITMAN.

#### 210 (2). PROBLEMS IN EXPERIMENTAL METHOD.

A survey of the methods employed in the experimental investigation of psychological problems. The aim of the course is to give an understanding of the underlying principles of psychological method which will serve as a basis for subsequent research and for the critical evaluation of psychological literature.

*Open to students who have completed course 209. Three hours a week for the second semester.*

MRS. MALLORY.

#### 212 (2). CURRENT PROBLEMS IN PSYCHOLOGY.

The purpose of this course is to familiarize students with recent work on selected topics such as intelligence, motivation, personality, animal behavior, and applied psychology.

*Open to students who have completed course 101 or 103. Not open to students who have had more than three hours of psychology. Three hours a week for the second semester.*

MRS. MALLORY.

**219. THE PSYCHOLOGY OF LEARNING.**

This course will attempt an examination and evaluation of current theories of learning with special emphasis upon those centering about the concepts of the conditioned reaction, trial and error, and insight. It will deal with recent inquiries into the nature of learning rather than with applications of the psychology of learning. It will not include the material ordinarily given in educational psychology.

*Open to students who have completed course 101 or 103. Three hours a week for a year.*

MISS FEHRER.

**301 (1). HISTORY OF EXPERIMENTAL PSYCHOLOGY.**

This course aims to trace the historical development of the principal movements in experimental psychology and to indicate the steps in refinement of method and technique which have attended advance in these movements.

*Open to juniors and seniors who have completed or are taking two grade II courses in psychology. Three hours a week for the first semester.*

MR. ZIGLER.

**303 (1). EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.**

This is an experimental-project course in which special problems are investigated by individual students under the direction of the instructor.

*Open to graduate students and to juniors and seniors who have shown in course 209 an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor, counting three hours week for the first semester.*

MISS HEIDBREDER, MR. ZIGLER, MRS. MALLORY.

**308 (2). EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.**

This is also an experimental-project course. It may be taken either as a continuation of course 303 or as a substitute for it.

*Open to graduate students and to juniors and seniors who have shown in course 209 an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for the second semester.*

MISS HEIDBREDER, MR. ZIGLER, MRS. MALLORY.

**309 (1). ABNORMAL PSYCHOLOGY.**

This course presents the facts of abnormal psychology in such a way as to throw light on the psychology of normal people. It deals with such topics as the symptoms of abnormality and their significance, various neuroses and psychoses, and the principal theories and interpretations of abnormal behavior.

*Open to juniors and seniors who have completed course 101 or 103 and have completed, or are taking, at least two semester courses chosen from the following: courses 207, 209, 210, 219, 301, 313 and 310 in Psychology; course 303 and the second semester of course 202 in Sociology; course 306 in Zoölogy; and the second semester of course 201 in Education. Three hours a week for the first semester.*

MISS HEIDBREDER.

## 310 (2). SOCIAL PSYCHOLOGY.

This course deals with current problems in social psychology, such as the interaction of personalities in social groups, attitudes, custom, propaganda and racial and national antipathies.

*Open to juniors and seniors who have completed course 101 or 103 and have completed, or are taking, at least two semester courses chosen from the following: courses 207, 209, 210, 219, 301, 313 and 309 in Psychology; course 303 and the second semester of course 202 in Sociology; and the second semester of the course in Group Leadership or of course 201 in Education. Three hours a week for the second semester.*

MISS FEHRER.

## 313 (1). DIFFERENTIAL PSYCHOLOGY.

This course treats of the differences which exist between one human being and another in respect to mental traits and capacities. It offers a survey of the methods by which psychologists have tried to determine and define such differences and also includes a study of the test movement. Opportunities are offered for students to acquaint themselves with representative tests, and to gain some practice in giving and scoring them.

*Open to juniors and seniors who have completed course 101 or 103 and have completed or are taking at least two semester courses chosen from the following: courses 207, 209, 210, 219, 301, 309 and 310 in Psychology; course 306 in Zoölogy; course 320 and the second semester of course 201 in Education. Three hours a week for the first semester.*

MRS. MALLORY.

## 324 (2). SEMINAR. PSYCHOLOGICAL THEORY.

Studies of representative contributions to psychological theory.

*Open to graduate students, to seniors who are taking twelve hours in Psychology, and to approved seniors who are taking nine hours. Three hours a week for the second semester.*

MISS HEIDBREDER.

## 326 (2). SEMINAR. SPECIAL TOPICS STUDIED FROM SOURCES.

This course is designed to train students especially interested in psychology to trace the development of special problems through the psychological literature. Experimental contributions bearing upon a topic will be analyzed and discussed.

*Open to graduate students, to seniors who are taking twelve hours in Psychology, and to approved seniors who are taking nine hours. Three hours a week for the second semester.*

MR. ZIGLER.

## 350. RESEARCH OR INDIVIDUAL STUDY.

*Open to graduate students and seniors by special permission. One to three hours a week for a semester or for a year.*

## HONORS

The department will advise candidates for honors in regard to their field of special study and will direct their work. Students are urged to consult the department before making their plans.

## INDIVIDUAL WORK

The attention of students is called to courses 210, 303, 308, and 350.

## DIRECTIONS FOR ELECTION

## I. MAJOR IN PHILOSOPHY

A twelve or fifteen hour major in Philosophy must include courses 101, 214, and either 107 or 307. As courses supplementary to a Philosophy major may be suggested certain courses in Psychology, Mathematics, Natural Science, History, Biblical History, Political Science and Sociology, and in English, German, French, Latin and Greek literature.

For students majoring in Philosophy, either French, German, or Greek will be accepted in fulfillment of the language reading requirement.

## II. MAJOR IN PSYCHOLOGY

A twelve or fifteen hour major in Psychology must include courses 209, either 324 or 326, and one semester of grade I work in Philosophy. Courses supplementary to a psychology major may include courses in Philosophy, Economics, Education, Group Leadership, Mathematics, Sociology, Statistics, Physics, Physiology and Zoölogy.

It is recommended that students majoring in Psychology fulfill the language reading requirement by taking the examination in either French or German.

## GENERAL EXAMINATION

Students who plan to take the general examination in Philosophy or in Psychology are expected to consult the department. Advice in regard to preparation will be given gladly.

## GRADUATE WORK

The department offers to graduate students direction in independent work both in Philosophy and in Psychology, and conducts graduate conferences with individual students at stated times.

## PHYSICS

*Professors:* LOUISE SHERWOOD McDOWELL, PH.D. (Chairman)  
LUCY WILSON, PH.D.

*Associate Professor:* ALICE HALL ARMSTRONG, PH.D.

*Assistant Professor:* DOROTHY HEYWORTH, PH.D.

*Instructor:* MARY LOUISE BARRETT, M.S.

*Assistants:* ROSEMARY HUDSON, M.A.

KATHERINE MAHALA VAN HORN, B.A.

## 101. ELEMENTARY PHYSICS.

The aim of the course is to give an intelligent understanding of man's physical environment and the everyday applications of fundamental laws; to answer the questions we all ask as to why nature behaves as it does: what laws govern the motion of automobiles, for example; what makes water boil and freeze; how electrons act to give us the varied phenomena of electricity; how sound waves differ from light waves and x-rays. The lectures are fully illustrated by experiments.

*Open to all undergraduates. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for a year.*

MISS McDOWELL, MISS HEYWORTH,  
MISS ARMSTRONG, MISS HUDSON, MISS VAN HORN.

## 104. ELEMENTARY PHYSICS. (Not offered in 1938-39.)

The same topics are considered as in course 101: mechanics, heat, electricity,

sound, and light; but greater emphasis is placed upon the mathematical development of the subject. The lectures are fully illustrated by experiments.

*Open to all students who have completed or are taking a year course in Mathematics in college. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for a year.*

**102 (1). GENERAL PHYSICS: MECHANICS, ELECTRICITY, AND LIGHT.**

The course gives a rapid survey of the fundamental principles in mechanics, magnetism and electricity, wave motion and light. The lectures are fully illustrated by experiments.

*Open by permission to students who have presented one unit in Physics for admission. Incoming freshmen may apply to the Dean of Freshmen, and sophomores to the chairman of the department for an examination for exemption from this course and admission to course 207. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.*

MISS ARMSTRONG.

**207 (1) or (2). ELECTRICITY.**

Direct and alternating current phenomena: the effects of inductance, capacity, and resistance. Laboratory study of methods of measurements, instruments, and electrical machinery. Especial attention will be given to students who wish training in the use of electrical instruments for other sciences.

*Open to students who have completed course 101 or 104 or 102, and to those who are exempt by examination from course 102. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for a semester; offered in both semesters.*

MISS HEYWORTH.

**203 (2). METEOROLOGY.**

The phenomena of the weather with explanations based upon the principles of physics. Topics include air pressure, temperature, winds, clouds, precipitation, progress of storms, cold waves, atmospheric optics; the principles of weather forecasting with special emphasis on the method of air mass analysis.

*Open to students who have completed course 102 and to sophomores, juniors, and seniors who have completed or are taking course 101 or 104 or who have presented one unit in Physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the second semester.*

MISS WILSON, MISS HUDSON.

**208 (2). ATOMIC PHYSICS.**

The course gives a brief introduction to the kinetic theory of gases, to theories of the nature of radiant energy and of the structure of the atom; and considers in some detail the evidence offered by the phenomena of cathode rays, x-rays, positive rays, radioactivity, isotopes, photoelectricity, ionization, and optical spectra.

*Open to students who have completed course 207 and by permission to sophomores, juniors, and seniors who have completed course 101 or 104 or 102. Three hours a week for the second semester.*

MISS McDOWELL.

## 205.† SOUND.

A preliminary study of vibrations and wave motion, including reflection, refraction, interference, and the principle of resonance. Properties of musical notes: intensity, pitch, and quality; scales and tonal combinations; types of sounding bodies; musical instruments; architectural acoustics; reception of sound by the ear; reproduction by telephone, phonograph, and radio.

*Open to students who have completed or are taking course 101, 102, or 104; to juniors, seniors, and by permission to sophomores who have presented one unit in Physics for admission. One period of lecture and discussion or one two-period laboratory appointment a week, counting one hour a week for a year.*

MISS ARMSTRONG.

## 204. THE AUTOMOBILE: PRINCIPLES AND CONSTRUCTION.

The internal combustion engine; carburetors; systems of ignition, starting and lighting, and transmission. Lectures with demonstrations to illustrate the physical principles involved. Individual laboratory study of various automobile mechanisms.

*Open by permission to sophomores, juniors, and seniors who have completed course 101 or 104 or 102 or who have presented one unit in Physics for admission. One period of lecture or one three-period laboratory appointment a week, counting one hour a week for a year.*

MISS WILSON.

## 209. LABORATORY TECHNIQUE.

Practice arranged to fit the needs of the individual student. Photography, including developing, printing, enlarging, the making of lantern slides and color photography; simple glass blowing; shop work, including the use of the lathe.

*Open to sophomores, juniors, and seniors whose major field is Physics, and by permission to others who have had a year of Physics and are interested primarily in the photography. One three-period laboratory appointment a week, counting one hour a week for a year.*

THE STAFF, Miss BARRETT for Photography.

## 301 (1).‡ LIGHT.

The wave theory and its application to the phenomena of interference, diffraction, double refraction, polarization, and dispersion; theory and use of optical instruments; brief discussion of the quantum theory.

*Open to juniors and seniors who have completed a course of grade II in Physics, or a year course of grade I in Physics and a year course of grade I in Astronomy. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the first semester.*

MISS WILSON, Miss HUDSON.

## 302 (1). THE PRINCIPLES OF RADIO COMMUNICATION.

The principles underlying radio broadcasting and receiving; properties of resonant circuits; theory and use of multi-electrode vacuum tubes; propagation of electromagnetic waves. Experimental lectures with individual laboratory study.

*Open to juniors and seniors who have completed course 207 in Physics and course*

† Offered in coöperation with the Department of Music.

‡ Astronomy 301, to which Physics 301 is prerequisite, may be counted toward a major in Physics.

202 in Mathematics. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.

Miss McDowell.

304 (1).† THEORETICAL ELECTRICITY AND MAGNETISM.

The topics discussed will be chosen from the following: magnetic fields and potentials, magnetic effects of currents, Kirchoff's laws of electricity, electrostatics, thermoelectricity, electromagnetics, magnetic properties of materials, varying currents, alternating currents, units, electromagnetic radiation. Emphasis is placed upon the application of mathematics, especially calculus, to the solution of problems.

Open to juniors and seniors who have completed course 207 in Physics and course 202 in Mathematics. Three hours a week for the first semester. Miss Heyworth.

305 (2).† MECHANICS.

Equations of motion; simple harmonic motion; central orbits; statics of rigid bodies; work, energy; dynamics of a particle; motion of rigid bodies. Emphasis is placed on the application of mathematics, especially plane analytic geometry and the calculus, to physics; use will be made of differential equations.

Open to students who have completed course 101 or 104 or 102 in Physics and course 202 in Mathematics. When combined with course 303 in Mathematics it may be counted toward a major in Mathematics. Three hours a week for the second semester.

Miss Heyworth.

309 (2). EXPERIMENTAL ATOMIC PHYSICS.

Individual experiments such as the measurement of the charge on the electron, the ratio of charge to mass of the electron, Planck's constant, ionization potentials; problems in optical and x-ray spectroscopy.

Open to juniors and seniors who have completed course 208. Six periods of laboratory and one of lecture a week, counting three hours a week for the second semester.

Miss Armstrong.

350. RESEARCH OR INDIVIDUAL STUDY.

The work will be under the direction of the member of the department in whose field the work lies. Opportunity will be offered for a series of experiments as well as for investigation of a single problem.

Open to graduate students and, by permission of the department, to juniors and seniors who have completed nine hours in the department. To count two to three hours a week for a semester or for a year. By permission the work may be arranged to count one hour for the first semester in case two or three hours are elected for the second semester. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

A major in physics should ordinarily include courses 101 or 104 or 102, 207, 208, 301 and at least two of the following: 302, 304, 305, 309. It may not include courses 204 and 209.

A knowledge of calculus is required and a year of chemistry is advisable for students majoring in physics. A reading knowledge of German and French, while not required, is desirable.

† Mathematics 303, if followed by Physics 304 or 305, may be counted toward a major in Physics.

Pre-medical students are referred to the requirements as given under electives, page 46.

#### GENERAL EXAMINATION

The general examination may be based on any combination of courses which includes the courses mentioned under Directions for Election. The questions will be designed: (1) to show the essential unity in the different branches of physics; (2) to test the knowledge of fundamental principles and the ability to apply these principles to concrete problems.

#### SPANISH

*Associate Professors:* ADA MAY COE, M.A. (Chairman)  
HELEN PHIPPS HOUCK, PH.D.

*Assistant Professor:* ANITA OYARZÁBAL, M.A.

*Visiting Professor:* PEDRO SALINAS, CATEDRÁTICO DE UNIVERSIDAD, LITT.D.

*Instructor:* LAURA DE LOS RÍOS, LIC. EN LETRAS.

All courses of the department are conducted in Spanish; oral expression is stressed.

A limited number of qualified students will be permitted, when practicable, to spend the junior year in Spain or Mexico with the foreign study group of Smith College.

#### 101. ELEMENTARY COURSE.

Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish.

*Open to students who do not present Spanish for admission. Three hours a week for a year.* MISS COE, MRS. HOUCK, MISS DE LOS RÍOS.

#### 102. SPANISH AMERICAN LIFE.

The object of the course is two-fold: linguistic and cultural. It consists of grammar review, composition, themes, brief lectures on various aspects of Spanish and Spanish-American life and reading from modern Hispanic authors.

*Open to students who have completed course 101 or an equivalent. Three hours a week for a year.* MRS. HOUCK.

#### 104. MODERN NOVEL AND DRAMA (NINETEENTH CENTURY).

A study of the social conditions and literary trends of this period as a basis for the understanding of contemporary literature. Constant practice is given in the written and spoken language.

*Open to students who present three units in Spanish for admission and on recommendation of the department to students who have completed course 101. Three hours a week for a year.* MISS COE.

#### 203. ADVANCED CONVERSATION AND COMPOSITION. (Not given in 1938-39.)

This course is designed to give special opportunity for conversation, composition, and the acquisition of a large working vocabulary.

*Open to students who have completed course 102 or 104. One hour a week for a year.* MISS DE LOS RÍOS.

#### 204. CONTEMPORARY SPANISH LITERATURE.

First semester: the development of modern Spanish drama, with a brief introductory survey of the history of the drama and theatre in Spain. Authors

<sup>1</sup>Absent on leave.

studied include Benavente, Marquina, the Quinteros, Martínez Sierra. Second semester: Spanish novel and essay with special reference to the new tendencies and developments of contemporary times. Authors studied are Baroja, Azorín, Miró, Unamuno.

*Open to students who have completed course 102 or 104. Three hours a week for a year.*

MR. SALINAS.

#### 205. SPANISH CIVILIZATION.

The aim of this course is to provide a background for the study of Spanish literature. Lectures in Spanish, some illustrated, will treat briefly the geography and history of Spain, its colonial expansion, the development of its social and economic institutions, its arts, national ideals, and customs. Parallel readings and papers will be assigned.

*Open to students who have completed course 102 or 104. One hour a week for a year.*

MISS DE LOS RÍOS.

#### 206. MAIN CURRENTS OF SPANISH LITERATURE.

The aim of this course is to give students a bird's-eye view of the whole field of Spanish literature before they enter upon an intensive study of specific periods. It aims further to correlate the history and literature of the country. Selections from the earlier periods and complete works of the modern period are read and discussed.

*Open to students who have completed course 102 or 104. Three hours a week for a year.*

MR. SALINAS.

#### 301. DRAMA OF THE GOLDEN AGE (SEVENTEENTH CENTURY).

This course will be introduced by a short general outline of the historical and literary influences at work during the period. Characteristic dramas of Lope de Vega, Alarcón, Tirso de Molina, and Calderón will be studied as representative of the nation's thought and ideals at the time.

*Open to juniors and seniors who have completed course 204 or 206. Three hours a week for a year.*

MR. SALINAS.

#### 302. NOVEL OF THE GOLDEN AGE (SEVENTEENTH CENTURY).

The first semester's work begins with an introductory study of the origins of the novel, both the realistic and the idealistic types. Then the culmination of the novel in the Golden Age is studied, special attention being given to the chivalric, pastoral, and picaresque forms and the *Novelas ejemplares* of Cervantes. The entire second semester is given to the reading, analysis, and interpretation of *Don Quijote*. In both semesters oral and written reports and themes are required.

*Open to juniors and seniors who have completed course 204 or 206. Three hours a week for a year.*

MRS. HOUCK.

#### 303. OLD SPANISH LITERATURE FROM 1100 TO 1500. (Not offered in 1938-39.)

Study of *El Poema del Cid*, *El Libro de buen amor*, *La Celestina*.

*Open to graduates and to approved seniors who have completed at least one course of grade III. Three hours a week for a year.*

MISS COE.

## 304. SPANISH POETRY. (Not given in 1938-39.)

A study of the *romances* and of the lyric poetry of the Golden Age.

*Open to graduates and approved seniors who have completed or are taking a course of grade III in the department. Three hours a week for a year.* MR. SALINAS.

## 305. CERVANTES. (Not given in 1938-39.)

A careful comparative study of the works of Cervantes.

*Open to graduates and approved seniors who have completed course 302. Three hours a week for a year.* MRS. HOUCK.

## 306. MODERN SPANISH AMERICAN LITERATURE. (Not given in 1938-39.)

Study of the main trends in the poetry of Spanish America, especially the work of Rubén Darío, the *gaucho* literature, the novel and short story.

*Open to juniors and seniors who have completed course 204 or 206 and History 214. Three hours a week for a year.* MISS COE.

## 350. RESEARCH OR INDIVIDUAL STUDY.

*Open by permission to a limited number of seniors who are taking or have completed a course of grade III in the department. One to three hours a week for a year.*

## DIRECTIONS FOR ELECTION

Course 101 counts for the degree but does not count toward a major.

Students majoring in Spanish are advised to choose the sequence 104, 206, 301, 302, but they may consult their instructors and the chairman of the department for other combinations. Course 206 may not be omitted without special permission. A major must include at least six hours of grade III. It is also very desirable that every major should include 203 and 205. It is expected that those who are planning to teach will complete satisfactorily a twelve-hour major.

Students planning to major in Spanish are advised to take courses in History, Spanish Art, and the literature of other countries.

## GENERAL EXAMINATION

Every student who presents herself for the general examination in Spanish shall show:

- (1) Her knowledge of the language by her ability to use it in the examination.
- (2) A general knowledge of Spanish literature with as much of the historical background as is necessary for understanding the literature.
- (3) Familiarity with the specific fields of literature elected and their interrelation.

## SPEECH

*Assistant Professors:* EDITH MARGARET SMAILL, A.A.  
EDITH WINIFRED MOSES, M.A. (Chairman)  
CÉCILE DE BANKE  
*Instructor:* JEANNETTE BARRY LANE, Ph.B.  
*Assistant:* SARAH EMILY BROWN, M.F.A.

Not more than seven and one-half hours in this department may be counted within the minimum number of hours for the B.A. degree.

One hour in the sophomore year is required of all students except those who are exempted by examination or have completed course 101 or 105 in the freshman year, or who elect course 101 in the sophomore year.

Every freshman, whether or not she elects a course in the department, will be required to take a speech test. No preparation is necessary, but a reading test will be given to determine the student's tone quality, speech habits, and bodily control.

The courses are designed to help the student to acquire: (a) free use of the voice and a good pronunciation of English, (b) ease in public address, (c) the power to read aloud simply and with expression, (d) the ability to interpret dramatic literature, (e) an appreciation of the art of the theatre. The courses are arranged to make possible systematic and progressive study along these various lines.

**101. FUNDAMENTALS OF VOCAL EXPRESSION.**

The purpose of this course is to develop the ability to read and speak audibly, correctly, and expressively. Phonetics, voice production, platform delivery, and the oral study of various forms of literature.

*Open to all undergraduates. Three hours a week for a year.*

MISS MOSES, MISS DE BANKE, MISS LANE.

**104. VOICE AND SPEECH (A).**

This course is intended to promote right habits in the production of voice, and to increase precision in articulation and pronunciation for conversation, classroom use, and extempore speaking.

*Required of sophomores except those who have been exempted by examination or have completed or are taking course 101 or have completed course 105. Not open to students who have completed course 101 or 105. Students who have passed the exemption examination may elect it only if they secure the permission of the department. One hour a week for a year.* MISS MOSES, MISS DE BANKE, MISS LANE.

**105 (2). VOICE AND SPEECH (B).**

This course is, in general, the same as course 104 with some extension of the work.

*Open to freshmen and, by special permission, to sophomores. Not open to students who have completed course 101 or 104 nor to those who have passed the exemption examination. Three hours a week for the second semester.* MISS DE BANKE.

**201. ORAL INTERPRETATION AND PLATFORM ART.**

This course is designed to stimulate creative imagination and to give practice in the art of platform reading, to assist the student in acquiring a repertoire of poetry and drama, and to develop an individual style of presentation. Modern drama, from Ibsen to the contemporary period, and modern poetry will be used. There will be public recitals in the second semester.

*Open to students who have had one course in the department, also, by special permission, to those who have had work elsewhere that is acceptable to the department. Three hours a week for a year.*

MISS SMAILL.

**202. THE ART OF SPEAKING IN PUBLIC.** (Not given in 1938-39.)

The course makes a study of the principles of speech composition, and of the technique of delivery, with application of these to different kinds of original addresses, including speeches of introduction, welcome, presentation, commemoration, the after-dinner speech; the speech designed to persuade; types of debate. An opportunity will be given to organize and conduct an open forum meeting

*Open to students who have completed one course in the department and, by special permission, to sophomores, juniors, and seniors who have been exempted from the Speech requirement. Three hours a week for a year.*

MISS MOSES.

**203.† THEATRE WORKSHOP.**

Study and practice in the modern theatre. Survey of historical backgrounds of stage forms. Theories of various types of production, acting, setting, and direction. Principles of stage design and construction, lighting, and costuming. Practice through the production of several workshop plays and one public performance. The purpose of the course is to arouse appreciation of the art of the theatre and to prepare students to put on school and community plays.

*Open to sophomores, juniors, and seniors who have completed one course in the department and, by special permission, to those who have had an adequate background of speech, drama, and art. Three periods of class work and two of laboratory, counting three hours a week for a year.*

Director, MISS SMAILL.  
Assistant, MISS BROWN.

**204. CHORAL SPEAKING.**

This course introduces the origin and modern revival of Choral Speaking, and studies the educational, psychological, and social values of the verse-speaking choir, together with special technique requisite for its presentation.

*Open to sophomores, juniors, and seniors who have completed one course in the department and, by special permission, to those exceptionally qualified who have been exempted from the Speech requirement. Students must consult the instructor before electing this course. Two periods of class instruction, counting one hour a week for a year.*

MISS DE BANKE.

**205. ACTING.**

Theory and practice in the art of acting. This course includes pantomime, improvisation, and characterization. Scenes from Shakespeare and other great playwrights of important periods will be used.

*Open to sophomores, juniors, and seniors who have completed one course in the department and, by special permission, to those who have had an adequate background of speech, drama, and art. A two-hour period each week, counting one hour a week for a year.*

MISS SMAILL.

† A special fee of \$25.00 is charged for Speech 203. Loans from the Malvina Bennett Fund for this fee are available for a limited number of students. The chairman of the department should be consulted.

## ZOÖLOGY AND PHYSIOLOGY

<i>Associate Professors:</i>	MARGARET ALGER HAYDEN, PH.D. HARRIET CUTLER WATERMAN, PH.D. GLADYS KATHRYN McCOSH, PH.D. (Chairman) HELEN WARTON KAAN, PH.D.
<i>Assistant Professors:</i>	MARY LELLAH AUSTIN, PH.D. ADA ROBERTA HALL, PH.D. EVA ELIZABETH JONES, PH.D.
<i>Instructors:</i>	MARGARET ELLIOTT VAN WINKLE, M.S. CURATOR OF MUSEUM. HELEN BUTTS CORRELL, PH.D. LOUISE PALMER WILSON, PH.D. ELEANOR LEACH, M.A. CUSTODIAN OF LABORATORIES. MARY SEARS, PH.D.
<i>Assistants:</i>	HARRIET NASH TOWLE, B.A. MARGARET HENSON, B.A. JEANETTE LEONE MANDREY, B.A.
<i>Secretary and Custodian:</i>	KATHLEEN MILLICENT LEAVITT

## 101. THE BIOLOGY OF ANIMALS.

This course aims to furnish the basis for an intelligent understanding of animal life and of the place of man in the world of living things. The study of a series of forms of increasing complexity, culminating in a vertebrate, develops a conception of what an animal is and suggests probable evolutionary sequences. Cells are studied as units of structure and to demonstrate, particularly in germ-cells, the mechanism of heredity. Supplementing the facts gained in the laboratory, there runs through the second semester a series of lectures and discussions on the evidence and factors of evolution, on heredity and eugenics.

*Open to all undergraduates. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.*

MISS HAYDEN, MISS McCOSH, MISS AUSTIN,  
MRS. VAN WINKLE, MRS. CORRELL, MRS. WILSON,  
MISS JONES, MISS SEARS, MISS HALL, MISS LEACH.

## ZOÖLOGY

## 203. VERTEBRATE ZoÖLOGY.

Evidences of evolution from the study of the comparative anatomy and the development of the vertebrates, based upon a careful dissection of dogfish, *necturus*, and cat. It is the aim throughout the course to trace the evolution of the vertebrate type from a primitive form to man, with particular emphasis upon the changes leading up to the structures found in the human body. Lectures, laboratory, and museum work.

*Open to juniors and seniors without prerequisite, and to other students who have completed course 101. Five-year Hygiene students electing this course must also take course 301. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for a year.*

MISS WATERMAN, MISS LEACH.

## 204. ANIMAL ECOLOGY.

A study of animals in relation to their environment, that is, the natural history of animals. Among the subjects considered are the behavior of animals in their natural surroundings, their adaptations for particular habitats, environmental factors, ecological succession, animal communities such as stream life

and a meadow society, distribution and balance in nature. The field studies are limited to those in nearby regions. Lectures, laboratory, and field work.

*Open to students who have completed course 101 and to approved juniors and seniors. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory or field work, counting three hours a week for a year.* Miss McCOSH.

**301 (1). MAMMALIAN ANATOMY (HYGIENE 301).**

Lectures and laboratory work on the gross anatomy of bones and muscles.

*Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students. If counted as part of a major in Zoölogy, course 301 should be preceded by course 101. Three periods a week, in general one of lecture, discussion, or quiz, and two of laboratory, counting two hours a week for the first semester.* MISS WATERMAN.

**313 (2). MAMMALIAN ANATOMY (HYGIENE 313).**

Lectures and laboratory work on the digestive, respiratory, excretory, reproductive, circulatory, and nervous systems.

*Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students with the exception of those students who have already completed course 203. If counted as part of a major in Zoölogy, course 313 should be preceded by courses 101 and 301. Three periods a week, in general one of lecture, discussion, or quiz, and two of laboratory, counting two hours a week for the second semester.* MISS WATERMAN

**303 (1). HISTOLOGY AND HISTOLOGICAL TECHNIQUE.**

This course includes a study of the microscopic structure of the tissues and organs of mammals. Emphasis is laid on the relation of structure and function. Some training is given in the preparation of tissues for microscopical study.

*Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general one of lecture, discussion, or quiz, and five of laboratory, counting three hours a week for the first semester.* MISS KAAN.

**304 (2). EMBRYOLOGY.**

This course deals with the development of an individual from its origin as a fertilized egg through the time of formation of the principal organs and systems. The maturation and function of the germ cells are also considered. Laboratory work is based chiefly on a study of chick and pig embryos.

*Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester.* MISS KAAN.

**305 (2). THEORIES AND PROBLEMS OF ZOOLOGY.**

A course dealing with the present-day theories and problems of Zoölogy, and the history of their development; including such questions as the origin of life, growth, and the theories and factors of evolution. Three hours a week are spent in lecture, reports, and discussions. One or two short papers are usually required.

*Open to students completing a twelve-hour major, and under special conditions to others with the approval of the department. Three hours a week for the second semester.*

MISS HAYDEN.

306 (1). HEREDITY.

A study of the principles of heredity, based on the cytological and genetical evidence found in animals; the application of these principles to human inheritance and to the practical problems of eugenics. The class work is supplemented by a few practical breeding tests with *Drosophila* and guinea-pigs, carried on in the preparation time allotted to the course. There are no fixed hours for experimental work. Three hours are spent in lecture, reports, class discussion, and quizzes.

*Open to students completing a twelve-hour major, to five-year Hygiene students completing a major in Zoölogy, and to others under certain conditions with the approval of the department. Three hours a week for the first semester.*

MISS AUSTIN.

310 (2). ADVANCED HISTOLOGY.

This course continues the study of organs not included in course 303. Various aspects of histological research are considered in a series of reports on original papers. Individual problems afford practice in special methods of technique.

*Open to juniors and seniors who have completed 303. Six periods a week, in general one of lecture or discussion and five of laboratory, counting three hours a week for the second semester.*

MISS KAAN.

314 (2). CYTOLOGY. (Not offered in 1938-39.)

This course treats of the biology of the cell, including the structure of protoplasm, nucleus, cytoplasm; the phenomena of mitosis, maturation, fertilization; the relation of cellular structure to sex and heredity. Some training is offered in the technique of microscopical preparation.

*Open to students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for the second semester.*

MISS HAYDEN.

315 (1). PROTOZOÖLOGY. (Not given in 1938-39.)

This course will include (1) a study of the morphology, taxonomy, and interrelationships of the Protozoa, in order to introduce the student to the vast series of forms comprised in this group; (2) a study of their general physiology; (3) a consideration of some of the problems of broad biological significance illustrated by a study of the group.

*Open to students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for the first semester.*

MISS AUSTIN.

350. RESEARCH OR INDIVIDUAL STUDY.

This course offers elementary research problems in Histology, Embryology, Invertebrate and Vertebrate Zoölogy, Ecology, Cytology, Protozoölogy, and Physiology. Independent work will be required of the student under the direction of the instructor in the field chosen.

Open to graduate students and, with the advice of the department, to approved seniors who have completed or who are completing a twelve-hour major in Zoölogy. Three to six periods a week, counting one and one-half to three hours a year, or six periods a week, counting three hours a week for a semester. For graduate students, three to twelve periods a week, counting one and one-half to six hours for the year, or six to twelve periods, counting three to six hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

THE TEACHING STAFF.

### PHYSIOLOGY

#### 302. PHYSIOLOGY (HYGIENE 302).

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations, written reports, and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also required of students registered for the five-year Hygiene course, either in the junior or senior year. If counted as part of a major in Zoölogy, course 302 should be preceded by course 101. Open to Hygiene students only; others take course 308. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for a year.

MRS. WILSON.

#### 308. PHYSIOLOGY.

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations, written reports, and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Open to students who offer as prerequisites Zoölogy 101 and Chemistry 101 or 103; or to students who in addition to fulfilling the Chemistry requirements have completed or are taking Zoölogy 203. Open by special permission without prerequisite to students majoring in Chemistry. Chemistry 301 is recommended as a parallel course. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.

MISS HALL.

#### 309 (1). METABOLISM. (Not given in 1938-39.)

A study of the physiological reactions by means of which energy changes are produced in the animal body. The laboratory work includes a clinical method of determining basal metabolism and individual problems to illustrate normal and abnormal physiological oxidations in laboratory animals.

Open to students who have completed course 302 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the first semester.

MISS HALL.

311 (1). COMPARATIVE PHYSIOLOGY OF THE NERVOUS SYSTEM. (Not offered in 1938-39.)

A study of irritability and nervous control in representative groups from Protozoa to man. The course includes a study of the rôle of the developing sense organs in behavior and of the physiological basis of mental processes.

*Open to students who have completed course 308 or 302. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the first semester.*

MISS HALL.

312 (2). PHYSIOLOGY OF NUTRITION. (Not offered in 1938-39.)

The course includes the study of assimilation by tissue cells as well as the processes involved in normal digestion and absorption of foodstuffs. Normal and faulty nutrition will be compared by feeding experiments with animals. Laboratory and written work will be individually assigned.

*Open to students who have completed or are taking course 308 or 302. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester.*

MISS HALL.

316 (2). PHYSIOLOGY OF THE ENDOCRINE GLANDS. (Not given in 1938-39.)

A study of the chemical control of the animal organism through the secretions of the endocrine glands. Individual problems will constitute a part of this course.

*Open to students who have completed or are taking course 302 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester.*

MISS HALL.

350. RESEARCH OR INDIVIDUAL STUDY.

(See Zoölogy.)

#### DIRECTIONS FOR ELECTION

These courses are designed to provide for the general student a basis for the interpretation of phenomena in the world of living things. At the same time they may furnish a foundation for students who plan to follow professionally some phase of biological work, such as teaching, research, laboratory technique, medicine, public health, physical education, nursing, medical social service.

Five-year Hygiene students wishing to major in the department should elect course 101 in the freshman or sophomore year, and courses 301, 313, 302, 306 in the junior and senior years.

Pre-medical students are referred to the requirements as given under electives, page 46.

For public health work, students are advised to elect courses 101 or 203, 308 and 303. Students majoring in Zoölogy are advised to include Botany 308 as part of the six or nine hour minor.

A major is based on course 101. A knowledge of Chemistry is required of all students majoring in Physiology and is desirable for all students majoring in the department. A reading knowledge of French and German is desirable, though not required.

Students majoring in Zoölogy or Physiology may under certain conditions obtain special permission from the Chemistry Department to take organic Chemistry, course 301, after having taken course 101.

Students who intend to major in Zoölogy or Physiology as a foundation for professional work are urged to consult with the department before completing their plans.

#### GENERAL EXAMINATION

The general examination will be based on the courses taken in the major subject. In the course of the year members of the department will meet major students to discuss methods of preparation for the examination. No summer reading is required but references will be given to students desiring them.

The purpose of the general examination is to test the student's knowledge of the fundamental principles underlying animal life, the essential facts involved and their significance. Four hours in one session will be allowed for the examination. The questions offered will permit adequate choice.

## EXPENSES

*I. For resident students*

Students in residence in 1938-39 . . . . .	\$1050
Students entering in September 1939 and thereafter . . . . .	1100

*II. For non-resident students . . . . .* \$500

Students who are permitted to take *seven hours or less* of classroom work a week, and *who do not live in college buildings*, pay tuition by the course as follows: for a one-hour course, \$50; a two-hour course, \$100; a three-hour course, \$150. Payment is due at the beginning of the year.

## FIXED TIMES AND AMOUNTS OF PAYMENT

**Payments must be made before the student can take her place in the classroom. No exception will be made to this rule without written permission from the Assistant Treasurer.**

Checks or money orders should be made payable to Wellesley College. If sent by mail, they should be addressed to the Assistant Treasurer.

There are no deductions for absences, and no refunds save in exceptional cases of which the College shall be the sole judge.

*I. For students who room in college buildings*

August 10 . . . . . \$50

Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society may be applied on this payment.

**The deposit is not refundable.**

Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.

## September (at the opening of college)

Students in residence in 1938-39 . . . . .	\$525
Students entering in September 1939 and thereafter . . . . .	550

## February (before the beginning of the second semester)

Students in residence in 1938-39 . . . . .	475
Students entering in September 1939 and thereafter . . . . .	500

The regular charge for board begins at the opening of college houses.

*II. For students who do not room in college buildings*

August 10 . . . . . \$50

Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society may be applied on this payment.

**The deposit is not refundable.**

Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.

September (at the opening of college) . . . . .	\$250
February (before the beginning of the second semester) . . . . .	200

Graduate and special students who do not live in college buildings make payment for room and board directly to the management of the private houses in which they have secured lodging and meals, at such rates and times as the parties to the arrangement may agree upon. Information regarding boarding places may be obtained by addressing the Dean of Residence.

#### TUITION AND OTHER CHARGES IN DEPARTMENT OF MUSIC

For instruction for the college year in piano, organ, violin or voice, two lessons a week . . . . .	\$150
One lesson a week . . . . .	75
	(Lessons thirty minutes in length)
For use of the piano, one period daily for the college year . . . . .	15
For two or three periods daily, in proportion.	
For use of the pipe organ in Music Hall, one period daily for the college year . . . . .	20
For two or three periods daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music is payable in advance in two equal installments, one at the beginning of each semester, and *is not subject to return or deduction* since no student may elect music for a shorter period than one semester.

#### FEES

##### I. Application Fee.

An application fee of \$10 is required from all candidates for admission, and no application is recorded until the fee is received. The same fee is required from all former students who apply for readmission. If the fee of \$10 for application for admission to college was paid *before* March 15, 1931, it will be credited on the first payment for tuition. As heretofore announced, application fees paid *after* March 15, 1931, will not be credited on any bill. If the application is cancelled for *any reason* the fee is forfeited to the College. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee.

##### II. Matriculation fee.

A matriculation fee of \$5 is payable when an applicant is accepted as a graduate student. The amount of this fee will be deducted from the diploma fee of \$25 payable for the Master's degree, or from the fee of \$10 payable for the certificate in Hygiene and Physical Education.

No student may receive a diploma until a satisfactory settlement of all her college fees has been made.

### III. Infirmary fees.

The privileges of the infirmary, when prescribed by the Resident Physician, are open to all students without charge for a period not exceeding seven days, provided no extra service is required. An infirmary fee of \$2.25 a day is charged for periods exceeding seven days. Charges for extra service will be determined by the amount required.

**NOTE:**—Every student should also plan for an annual expenditure of \$30 to \$50 for the purchase of books and supplies.

## SCHOLARSHIPS, LOANS, AND PRIZES

Scholarships maintained by income from permanent funds listed below are awarded annually to undergraduate students, and grants are made from other funds which the trustees set aside for this purpose each year. The students who qualify for these scholarships are, in the main, those who have been in Wellesley College at least a year, but some freshmen and a few students who transfer from other institutions receive grants. Awards are made in recognition of intellectual ability, of good college citizenship and character, and of genuine financial need. The magnitude of the scholarships ranges in general from \$100 to \$500.

*Applications from students in college* must be filed with the Dean of the College, who is Chairman of the Faculty Committee on Scholarships, before March first on forms furnished for the purpose and in accordance with the instructions posted in February of each year.

### SCHOLARSHIPS FOR FRESHMEN:

A limited number of scholarships are offered to incoming freshmen. Awards are based on financial need, scholastic ability, and promise of good college citizenship. There are fifteen Pendleton Scholarships of \$600. As funds permit, sums ranging from \$100 to \$400 are awarded to other freshman applicants.

Applications from all candidates for admission should be made to the Dean of Freshmen before March first of the year of admission.

More detailed information about scholarships and coöperative houses may be obtained by writing directly to the Dean of Freshmen.

### COÖPERATIVE HOUSES:

Munger and Norumbega Halls are coöperative houses open to students who are interested in earning part of their expenses. An award of a place in a coöperative house is considered a part of the total scholarship grant.

THE PERSONNEL BUREAU offers assistance to students who wish to earn money toward their college expenses. The types of employment are mainly clerical work, tutoring, library work, assisting in the various offices of the College, and some domestic work. While the Personnel Bureau makes every effort to obtain places for those who wish to work, it cautions students against depending upon this source for any regular or considerable income. Such employment makes a distinct draft upon strength and time, and it is hardly to be advised for the freshman year.

THE WELLESLEY STUDENTS' AID SOCIETY is another source of pecuniary aid. This organization is maintained by alumnae and former students of the College, aided by the faculty and undergraduates, as their contribution towards keeping the opportunity of Wellesley open to students of moderate means. Awards are made both in gifts and in loans, and usually in some combination of the two. These awards are made on practically the same basis as the college scholarships and supplement them for necessary college expenses. They ordinarily range from \$50 to \$200. Loans and occasionally gifts in small sums, \$5 to \$25, are also made for incidental expenses and emergencies.

#### SCHOLARSHIPS

ADAMS SCHOLARSHIP FUND of \$2,200, founded in 1907 by bequest of Adoniram J. Adams of Boston.

ALDRICH SCHOLARSHIP FUND of \$650, founded in 1931 by bequest of Alzora Aldrich of the class of 1896.

EDITH BAKER SCHOLARSHIP of \$7,800, founded in 1892 by bequest of Mrs. Eleanor J. W. Baker, in memory of her daughter.

WALTER BAKER MEMORIAL SCHOLARSHIP of \$7,800, founded in 1880 by Mrs. Eleanor J. W. Baker and increased by her bequest in 1892, in memory of her son.

DR. ALMA EMERSON BEALE FUND of \$3,300, founded in 1917 by bequest of Dr. Alma E. Beale of the class of 1891.

LILLIAN HUNT BERMANN SCHOLARSHIP of \$5,550, founded in 1937 by bequest of Mrs. Bermann, enrolled 1881-83.

LUCILE KROGER BERNE SCHOLARSHIP FUND of \$5,000, founded in 1936 by Albert Berne, in memory of his wife of the class of 1911.

CHARLES BILL SCHOLARSHIP FUND of \$7,800, founded in 1898 by bequest of Charles Bill.

CHARLES B. BOTSFORD SCHOLARSHIP FUND of \$5,600, founded in 1920 by bequest of Lucy A. Botsford.

MARIAN KINNEY BROOKINGS SCHOLARSHIP FUND of \$5,000, founded in 1929 by Mrs. Selina M. Kinney, in memory of her daughter of the class of 1904.

FLORENCE N. BROWN MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs. Samuel N. Brown, Jr., in memory of their daughter.

EMILY GRACE BULL SCHOLARSHIP of \$20,000, founded in 1930 by bequest of Mrs. E. Grace Bull Morse of the class of 1899.

ARTHUR L. CARNES FUND of \$10,000, founded in 1931 by bequest of Arthur L. Carns.

MARY CASWELL MEMORIAL SCHOLARSHIP of \$5,404, founded in 1928 by Miss Caswell's faculty and alumnae friends.

AUGUSTUS R. CLARK MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs. A. N. Clark.

CLASS OF 1880 SCHOLARSHIP of \$1,219, founded in 1930 by the class of 1880.

CLASS OF 1884 SCHOLARSHIP FUND of \$6,730, founded in 1919 by the class, and increased in 1928 by bequest of Clara Brewster Potwin of the class of 1884.

CLASS OF 1889 MEMORIAL SCHOLARSHIP of \$1,100, founded in 1904 by the class, in memory of classmates who had died.

CLASS OF 1893 MEMORIAL SCHOLARSHIP FUND of \$6,100, founded in 1913 by the class, in memory of classmates who had died.

CLASS OF 1916 SCHOLARSHIP FUND of \$2,000, founded in 1933 by the class of 1916.

ABBIE A. COBURN MEMORIAL SCHOLARSHIP of \$2,200, founded in 1892 by Mrs. Helen Smith Coburn in memory of her sister-in-law.

CONNECTICUT SCHOLARSHIP of \$5,600, founded in 1912 by bequest of Mrs. Louise Frisbie.

MARGARET McCCLUNG COWAN FUND of \$1,100, founded in 1888 by Reverend and Mrs. P. D. Cowan, in memory of their daughter.

ELIZABETH AND SUSAN CUSHMAN FUND of \$23,610, founded in 1923 by bequest of Susan L. Cushman of the class of 1891.

GEORGE H. DAVENPORT SCHOLARSHIP of \$10,000, founded in 1933 by bequest of George H. Davenport, a former member of the Board of Trustees.

NORMA LIEBERMAN DECKER SCHOLARSHIP FUND of \$6,487, founded in 1924 by Mrs. Emma Lieberman in memory of her daughter of the class of 1911, and increased in 1938 by Mrs. Decker's family.

DURANT MEMORIAL SCHOLARSHIP of \$5,600, founded in 1883 by the officers and students of Wellesley College, in honor of Henry Fowle Durant.

PAULINE A. DURANT SCHOLARSHIP of \$8,250, founded in 1880 by Henry Fowle Durant, and increased in 1919 by bequest of Mrs. Durant.

JOHN DWIGHT MEMORIAL SCHOLARSHIP of \$10,000, founded in 1930 by William Scott Lyon.

GERTRUDE ELLIS SCHOLARSHIPS of \$10,000, founded in 1936 by bequest of Mrs. Kate G. Ellis in memory of her daughter of the class of 1910.

EMMELAR SCHOLARSHIP of \$5,600, founded in 1889 by the class of 1891.

RUBY FRANCES HOWE FARWELL SCHOLARSHIP of \$2,100, founded in 1926 by John W. Farwell, in memory of his wife.

ELIZABETH S. FISKE SCHOLARSHIP of \$5,600, founded in 1904 by bequest of Miss Fiske.

JOSEPH N. FISKE MEMORIAL SCHOLARSHIP of \$9,000, founded in 1892 by Mrs. Fiske.

RUFUS S. FROST SCHOLARSHIPS of \$1,100, and \$5,600, founded in 1880 by Mr. Frost.

HOWARD COGSWELL FURMAN SCHOLARSHIP of \$5,000, founded in 1928 by Mrs. Eleanor Van Allen Furman.

MARY ELIZABETH GERE SCHOLARSHIP FUND of \$5,600, founded in 1900 by bequest of Miss Gere.

JOSEPHINE KEENE GIFFORD SCHOLARSHIP of \$2,000, founded in 1932 by Mrs. Jarvis B. Keene, in memory of her daughter of the class of 1917.

GOODWIN SCHOLARSHIP of \$5,600, founded in 1897 by bequest of Mrs. Hannah B. Goodwin, a former member of the Board of Trustees.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1896 and increased in 1901 by Helen Miller Gould Shepard in memory of her mother.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1899 and increased in 1901 by Helen Miller Gould Shepard.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1901 by Helen Miller Gould Shepard.

M. ELIZABETH GRAY SCHOLARSHIPS of \$11,200, founded in 1914 by bequest of William J. Gray.

GROVER SCHOLARSHIP of \$5,600, founded in 1878 by William O. Grover.

AMELIA A. HALL SCHOLARSHIP FUND of \$10,000, bequeathed in 1917 by Amelia A. Hall of the class of 1885 as a fund subject to annuity, became available for scholarships in 1937.

SARAH EVELYN HALL SCHOLARSHIP FUND of \$5,000, bequeathed in 1911 by Sarah Evelyn Hall of the class of 1879 as a fund subject to annuity, became available for scholarships in 1930.

THOMAS B. HARBISON MEMORIAL SCHOLARSHIP of \$5,000, founded in 1938 by Helen D. Harbison of the class of 1917 in memory of her father.

CORA STICKNEY HARPER FUND of \$2,200, founded in 1915 by bequest of Mrs. Harper of the class of 1880.

EMILY P. HIDDEN SCHOLARSHIP FUND of \$2,200, founded in 1909 by bequest of Emily P. Hidden.

WINIFRED FRANCES HILL SCHOLARSHIP of \$20,000, founded in 1928 by bequest of Mrs. Ida Parker Hill.

SARAH J. HOLBROOK SCHOLARSHIP of \$3,300, founded in 1898 by bequest of Miss Holbrook.

EVELYN AND MARY ELIZABETH HOLMES SCHOLARSHIP FUND of \$6,000, founded in 1930 by bequest of Evelyn Holmes, sister of Mary Elizabeth Holmes of the class of 1892.

SARAH J. HOUGHTON MEMORIAL SCHOLARSHIP of \$6,700, founded in 1889, in memory of his wife, by William S. Houghton, a former member of the Board of Trustees.

ADA L. HOWARD SCHOLARSHIP of \$6,700, founded in 1895 in honor of Miss Howard, the first President of the College.

JOHN R. HUNT MEMORIAL SCHOLARSHIP of \$5,550, founded in 1937, in memory of her father, by Mrs. Lillian Hunt Bermann, enrolled 1881-83.

SARAH V. HUNT MEMORIAL SCHOLARSHIP of \$5,550, founded in 1937, in memory of her mother, by Mrs. Lillian Hunt Bermann, enrolled 1881-83.

SARAH B. HYDE SCHOLARSHIP of \$2,200, founded in 1898 by bequest of Mrs. Sarah B. Hyde.

JOHN AND JANE JACKSON FUND of \$1,000, founded in 1932 by Margaret H. Jackson in memory of her parents.

ELIZA C. JEWETT SCHOLARSHIPS of \$6,700, founded in 1894 by bequest of Eliza C. Jewett.

SOPHIE JEWETT MEMORIAL SCHOLARSHIP of \$1,100, founded in 1911 by Elsa D. James Garvin of the class of 1906 in memory of Sophie Jewett, instructor and associate professor of English Literature 1889-1909.

MILDRED KEIM FUND of \$11,200, founded in 1912 by Newton and Frances S. Keim in memory of their daughter Mildred of the class of 1912, who died in her junior year.

KATHARINE KNAPP SCHOLARSHIP of \$5,600, founded in 1920 by bequest of Miss Knapp.

VINNIETTA JUNE LIBBEY SCHOLARSHIP of \$4,000, founded in 1932 by bequest of Miss Libbey of the class of 1892.

GERTRUDE C. MUNGER SCHOLARSHIPS of \$10,587, founded in 1930, in memory of her mother, by Jessie Munger of the class of 1886.

ADELAIDE M. NEWMAN FUND of \$1,700, founded in 1938 by Mrs. Charles C. Newman, in memory of her daughter of the class of 1931.

ANNA S. NEWMAN MEMORIAL SCHOLARSHIP of \$2,100, founded in 1913 by gifts from former students.

NEW YORK WELLESLEY CLUB SCHOLARSHIP FUND of \$6,225, founded in 1930 by the New York Wellesley Club.

NORTHFIELD SEMINARY SCHOLARSHIP of \$5,600, founded in 1878.

ANNA PALEN SCHOLARSHIP of \$11,200, founded in 1902.

ANNA C. PATTEN SCHOLARSHIP FUND of \$10,427, founded in 1937 by bequest of D. Warren Patten, in memory of his sister enrolled 1878-80.

MARY ARNOLD PETRIE SCHOLARSHIP (accumulating), founded in 1934 by bequest of Mrs. Anna A. Petrie, in memory of her daughter.

ADELAIDE L. PIERCE SCHOLARSHIP FUND of \$15,000, founded in 1933 by bequest of Helen A. Pierce of the class of 1891, in memory of her mother.

ELEANOR PILLSBURY MEMORIAL SCHOLARSHIP FUND of \$106,500, founded in 1926 by Mr. and Mrs. Cyrus H. K. Curtis, in memory of their daughter, Eleanor Pillsbury Pennell of the class of 1913.

PITTSBURGH WELLESLEY CLUB SCHOLARSHIP of \$3,000, founded in 1932 by the Pittsburgh Wellesley Club.

LUCINDA WYMAN PRINCE SCHOLARSHIP, income \$500, founded in 1936 by bequest of Mrs. Prince.

CATHERINE AYER RANSOM SCHOLARSHIP of \$1,100, founded in 1908 by bequest of Mrs. Ransom.

MAE RICE MEMORIAL SCHOLARSHIP FUND of \$1,100, founded in 1905 by the class of 1902, in memory of their classmate.

SAMUEL M. AND ANNA M. RICHARDSON FUND of \$102,619, founded in 1931 by bequest of Samuel M. Richardson, and increased in 1933 by bequest of Mrs. Richardson.

ROLLINS SCHOLARSHIP of \$9,000, founded in 1903 by Augusta and Hannah H. Rollins, in memory of their parents.

HELEN J. SANBORN ALUMNAE SCHOLARSHIP FUND of \$11,200, founded in 1905 by Helen J. Sanborn of the class of 1884.

OLIVER N., MARY C., AND MARY SHANNON FUND of \$18,550, founded in 1916 by bequest of Mary Shannon.

DAVID B., MARY B., AND JEANNETTE COLE SMITH MEMORIAL FUND of \$1,000 founded in 1935 by bequest of Mrs. Jeannette Smith Armitage of the class of 1911.

HARRIET F. SMITH SCHOLARSHIP FUND of \$22,500, founded in 1881 by Henry Fowle Durant, in memory of his mother.

MARY FRAZER SMITH SCHOLARSHIP of \$1,000, founded in 1934 by bequest of Mary Frazer Smith of the class of 1896.

STOCKWELL MEMORIAL SCHOLARSHIP of \$2,200, founded in 1930 by bequest of Marie Louise Stockwell of the class of 1897.

STONE SCHOLARSHIP FUND of \$28,100, founded in 1884 by Mrs. Valeria G. Stone.

SWEATMAN SCHOLARSHIP of \$5,600, founded in 1880 by V. Clement Sweatman.

JESSIE GOFF TALCOTT FUND of \$538,856, founded in 1931 by bequest of Mrs. Elizabeth R. Stevens, who stipulated that one-half of the income be used for scholarships.

JULIA BALL THAYER SCHOLARSHIP of \$6,700, founded in 1907 by bequest of Mrs. Thayer.

JANE TOPLIFF MEMORIAL SCHOLARSHIP of \$6,700, founded in 1883 by Mrs. William S. Houghton, in memory of her mother.

ANN MORTON TOWLE MEMORIAL SCHOLARSHIP of \$5,600, founded in 1901 by bequests of Mrs. Towle's husband and son.

GEORGE WILLIAM TOWLE MEMORIAL SCHOLARSHIP FUND of \$7,550, founded in 1901 by bequest of George Francis Towle, in memory of his father.

MARIE LOUISE TUCK SCHOLARSHIP FUND of \$11,200, founded in 1919 by bequest of Alice C. Tuck, enrolled 1875-78, in memory of her sister of the class of 1883.

UNION CHURCH SCHOLARSHIP of \$2,800, founded in 1880 by Mr. and Mrs. Amos W. Stetson.

WESTON SCHOLARSHIP of \$5,600, founded in 1878 by David M. Weston.

JEANNIE L. WHITE SCHOLARSHIP of \$5,600, founded in 1886 by bequest of Miss White.

AMASA J. WHITING SCHOLARSHIP of \$2,600, founded in 1928 by bequest of Mrs. May C. W. Speare, in memory of her father.

ANNIE M. WOOD SCHOLARSHIP of \$11,200, founded in 1880 by her husband, Frank Wood, and increased by his bequest in 1915.

CAROLINE A. WOOD SCHOLARSHIP of \$5,600, the first scholarship of the college, founded in 1878 by Mrs. Caroline A. Wood, in memory of her husband, Caleb Wood.

WARREN MEAD WRIGHT SCHOLARSHIP FUND of \$10,000 founded in 1931, in memory of her son, by Mrs. George S. Wright of the class of 1881.

#### LOAN FUNDS

MCDONALD-ELLIS MEMORIAL of \$1,000, founded in 1908 by former students of the McDonald-Ellis School of Washington, D.C., in memory of the late principals of the school, and increased in 1926 by gift of Jessie C. McDonald of the class of 1888.

MARY HEMENWAY LOAN FUND (accumulating) of \$8,500, founded in 1937 by the Mary Hemenway Alumnae Association for the aid of students in the Department of Hygiene and Physical Education.

HELEN A. SHAFER LOAN FUND of \$1,000, founded in 1930 by bequest of Mary L. Sawyer of the class of 1888.

#### PRIZE FUNDS

The income of these funds is assigned for excellence in the subjects indicated.

BILLINGS PRIZE FUND (*Music*).

KATHARINE COMAN MEMORIAL PRIZE FUND (*Economics and Social History*).

DAVENPORT PRIZE FUND (*Oral Interpretation*).

ERASMUS HISTORY PRIZE FUND

ISABELLE EASTMAN FISK PRIZE FUND (*Public Speaking or Debating*).

JACQUELINE AWARD (*English Composition*).

MARY WHITE PETERSON PRIZE FUND (*Botany, Chemistry, Zoölogy*).

LEWIS ATTERBURY STIMSON PRIZE (*Mathematics*).

## SPECIAL AWARDS

The income of these funds is assigned in accordance with the terms of gifts.

**MARY G. HILLMAN AWARD (Mathematics).**

**ETHEL FOLGER WILLIAMS MEMORIAL FUND (German).**

FELLOWSHIPS AND SCHOLARSHIPS  
FOR GRADUATES

**THE ALICE FREEMAN PALMER FELLOWSHIP**, yielding an income of about \$1,400, was founded in 1903 by Mrs. David P. Kimball. The holder of this fellowship must be a graduate of an American college of approved standing, a woman of good health, not more than twenty-six years of age at the time of her appointment, unmarried throughout the whole of her tenure, and as free as possible from other responsibilities. She must have completed at least one year of graduate study. The same person will not be eligible to the fellowship for more than two years.

The fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. Twice during the period of tenure the holder of the fellowship must furnish evidence that it is used for purposes of serious study and not for general culture; and within three years from entrance on the fellowship she must present to the faculty a thesis embodying the results of the research carried on during the period of tenure.

A form to be used in applying may be obtained from the Secretary to the President, Wellesley College. The application must be filed before February first. Each applicant must furnish papers showing her most advanced work, letters from instructors as to ability, and a certificate of health.

**THE FANNY BULLOCK WORKMAN SCHOLARSHIP**, yielding an income of about \$1,200, was founded in 1929 by the bequest of Mrs. Fanny Bullock Workman.

The holder of this scholarship must be an alumna of Wellesley College who has completed at least one year of graduate study. She must present evidence of good health, character, financial need, and ability; and must be free from personal obligation which would interfere with study. The scholarship may be used to assist preparation for any useful work. Twice during the period of tenure the holder of the scholarship must furnish evidence of work done; and not later than one year after the completion of the period she must present a full report or other suitable evidence of the use to which the scholarship has been applied.

Forms to be used in applying may be obtained from the Secretary to the President, Wellesley College. Applications must be filed before February first. Each applicant must furnish letters of recommendation and papers showing her most advanced work.

**THE ANNE LOUISE BARRETT FUND**, yielding an income of about \$1,000, was founded in memory of her sister, by bequest of Mrs. Helen Barrett Montgomery of the class of 1884. The income is to be awarded, preferably in the field of music, to a woman who is a graduate of an American college of approved standing and who is a candidate for an advanced degree or has completed at least one year of graduate study. At the discretion of the trustees it may be awarded in

any other field. On presenting evidence of notable accomplishment, the same person will be eligible to apply for the fellowship for a second year. In the case of candidates of equal ability, preference will be given to a Wellesley graduate.

The fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. Work in music must be primarily in musical theory, or composition, or the history of music. Twice during the period of tenure the holder must furnish evidence of work done; and not later than one year after the completion of the period she must present a full report, or other suitable evidence of the results of her work while holding the fellowship.

Forms to be used in applying may be obtained from the Secretary to the President, Wellesley College. The application must be filed before February first. It should be accompanied by letters of recommendation and papers showing the candidate's most advanced work. Letters recommending candidates in music should specifically cover the following points in musicianship: 1) the candidate's ability to read at sight (a) four-part score involving the treble, bass, soprano, mezzo-soprano, alto and tenor clefs and (b) orchestral scores of the pre-Beethoven period; 2) an estimate of the accuracy of the candidate's ear. Applicants in music should submit their most advanced work in theory or composition as well as in the field of musical history.

**THE HORTON-HALLOWELL FELLOWSHIP** has been established by the Alumnae Association of Wellesley College in honor of Mary E. Horton, the first professor of Greek, and Susan M. Hallowell, the first professor of Botany. It is open to alumnae of Wellesley College for graduate study in candidacy for the degree of Doctor of Philosophy or for private research of equivalent standard. The amount of the fellowship is \$1,200. A candidate for this fellowship must present evidence of good health and financial need.

Forms to be used in applying may be obtained from the Chairman of the Fellowship Committee, Alumnae Office, Wellesley College. Applications must be filed before February 15. The applicant should describe the plan of study which she proposes to follow if granted the fellowship, and should present specimens of written work which demonstrate her ability to carry on independent study.

**THE SUSANNA WHITNEY HAWKES TEACHING FELLOWSHIP**, from the bequest of Susanna Whitney Hawkes, is offered by the department of English Composition.

The object of this fellowship is to give to students interested in teaching English an opportunity (1) to do graduate study leading in two years to the Master's degree; and (2) to gain experience in teaching through conducting a certain number of classroom periods in freshman English Composition, through reading themes, and holding conferences with students—all under careful supervision. The holder of the fellowship will, with the approval of the Department of English Composition and the Committee on Graduate Instruction, elect graduate courses, in accordance with her individual needs, in English Language, Literature, Composition, Education.

The fellowship is open to those graduates of Wellesley College who have shown special competence in English work, and who have received their B.A. degree

within six years. The fellowship, which may be awarded for two successive years, covers tuition fees for graduate courses at Wellesley College and also carries with it an annual stipend of \$500.

Applications, with full information about the applicant's work, must be received not later than March first and should be addressed to The Chairman of the Department of English Composition, Wellesley College.

**THE LORETTA FISH CARNEY MEMORIAL SCHOLARSHIP**, yielding an income of about \$150, was founded in 1920 by the alumnae and staff of the Boston Normal School of Gymnastics and the Department of Hygiene and Physical Education of Wellesley College; the income of this fund to be awarded, at the discretion of the teaching staff of the department and of the President of the College, to a second-year student in the department.

**THE AMY MORRIS HOMANS SCHOLARSHIP FUND**, yielding an income of about \$300, was founded in 1924 by the Mary Hemenway Alumnae Association of the Graduate Department of Hygiene and Physical Education in honor of Miss Amy Morris Homans, pioneer and leader in physical education in the United States; the income of this fund to be awarded to a student in the Graduate Department of Hygiene and Physical Education who is in need of assistance and shows proficiency and promise.

**THE TRUSTEE GRADUATE SCHOLARSHIPS.** Two scholarships yielding an income of \$750 each have been established by the Trustees of Wellesley College for members of the senior class who are qualified for graduate work. The scholarships may be used for study in this country or abroad. Notice of the conditions of application are sent by the Dean of Graduate Students in the spring of each year to qualified seniors.

**EIGHTEEN GRADUATE SCHOLARSHIPS** of the annual value of tuition for one year have been established for the benefit of approved candidates for the Master's degree in residence at Wellesley College. Application for one of these scholarships should be made before March first by personal letter from the candidate to the Dean of Graduate Students, Wellesley College, stating the applicant's reasons for desiring to do graduate work in the department chosen, and her reason for applying for the scholarship. The application should be accompanied by letters of recommendation from persons familiar with the candidate's college work, and by a doctor's certificate of health. The award will be made after the candidate's formal application for admission to graduate work has been accepted. Students who do not maintain their work at graduate grade during the first semester will be required to relinquish their scholarships at mid-years.

Laboratory assistants and other members of the official staff of the College are granted the privileges of graduate study without tuition charge.

#### GRADUATE STUDY IN CLASSICS:—

*The American School of Classical Studies in Athens* offers special opportunity for graduate study in Greek. Membership without tuition\* is open to all graduates and graduate students of Wellesley College who have done sufficient

\* The income of the Julia Josephine Irvine Fund makes possible the studentships in the American School of Classical Studies in Athens.

work in Greek and Archæology to profit by the opportunity. The object of the School is to furnish an opportunity to study in Greece the literature, art, antiquities, and history of the country under suitable guidance; to prosecute and to aid original research in these subjects; and to assist in the exploration and excavation of classic sites. Three fellowships of \$1,000 each are awarded annually on the basis of competitive examinations and are open to graduates of the co-operating colleges of which Wellesley College is one. For further information apply to Associate Professor Law.

*The American School of Classical Studies in Rome* is an integral part of the American Academy. The object of this School is to promote the study of classical literature in its bearing upon antiquities and history; of classical, Etruscan, and Italian art and archæology, including topography, palæography, and epigraphy, and of the art and archæology of the early Christian, Mediæval, and Renaissance periods within the boundaries of Italy. It furnishes regular instruction and guidance in some or all of these subjects, encourages and assists in original research and exploration. Students should have the ability to read ordinary Greek and Latin prose at sight and to use French and German as instruments of research; they will find an elementary knowledge of Italian very useful. Those admitted are expected to put themselves under the guidance of the Director of the Academy and the Professor in charge of the Classical School for the full period of eight months. Duly qualified graduates of Wellesley College are exempt from any charge for tuition. Three Fellowships in the School of Classical Studies are offered by the Academy, each with a stipend of \$1,500 a year for two years, and an allowance of \$500 for transportation to and from Rome. The academic year begins on the first day of October and students are expected to report in Rome at the Academy on that day. A Summer School established in 1923 offers a program of great value for students and teachers of the classics. For further information application may be made to Professor A. Bertha Miller.

**SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOODS HOLE.**—Admission to courses at Woods Hole is upon a selective basis. Wellesley College offers annually two scholarships to applicants who are successful candidates. This laboratory is primarily for research, but in the summer courses of instruction are offered, four in Zoölogy and one in Botany. The purpose of these courses is to aid in the production and training of investigators, and first consideration is given to persons who, whether graduate or undergraduate, give promise of contributing to the advancement of science. Applicants must have completed at least two full college courses in the subject in which they wish to work. The laboratory offers, besides these courses of instruction, opportunity for research, either directed or independent. In addition, there are courses of lectures on special topics and on subjects of general biological interest.

Applicants should state the character of the work to be done, whether botanical or zoölogical, whether courses of instruction are desired, or investigation under direction. All applications should be sent to Associate Professor Davis or Associate Professor McCosh in time to reach Wellesley College before April first. These applications will be forwarded to Woods Hole to be acted upon May fifteenth; after this date notification will be sent to the successful candidates.

## THE COLLEGE COMMUNITY

Wellesley is a residential college. The conditions of life at Wellesley are designed to facilitate and supplement the scholar's activity.

**HALLS OF RESIDENCE** are maintained for all undergraduates except those whose homes are within commuting distance of the College. A Head of House presides over each residence and coöperates with the student officers to develop the house group as a congenial social unit. Most of the campus halls have resident faculty members, and all the houses have faculty and alumnae visitors who become acquainted with the student residents. There are seven freshman houses. Five of these are in the village, not far from the campus, and accommodate approximately half the entering class. Each freshman house has a freshman chairman with a junior as her adviser. In each of the other campus houses, members of at least three classes are in residence. Rooms are assigned to new students in the order in which their original application fees have been received. Students in residence at the time of the spring room-drawing choose their rooms in the order of choice determined by lot within each class.

**RELIGIOUS SERVICES** are held daily in the College Chapel. On week days these are conducted by some member of the faculty, except on Thursday when a member of the senior class is the leader. The Sunday morning services are led by visiting clergymen of many denominations. In all these services the college choir, led by a member of the department of Music, participates; and, in addition, there are a number of special musical vespers services during the year. The Christian Association conducts a varied program of religious discussions and conferences, and its officers direct numerous service agencies in the neighborhood of Wellesley in which many students participate. The Christian Association coöperates with the Student Christian Movement and is an important link between Wellesley students and those of other colleges in this country and abroad. The Newman Club and various denominational groups are significant assets to the religious life of the campus. The Wellesley College Service Fund is administered by a special committee of faculty and students which raises and distributes funds for educational and philanthropic agencies. The largest item in its budget is the annual contribution to Yenching University in China.

**THE HEALTH SERVICE** is directed by the college physicians in coöperation with the department of Hygiene and Physical Education. The medical staff includes four physicians, one of whom is a psychiatrist. One of the physicians is available for visits to student houses, and a clinic is open without charge to all students at Simpson Infirmary, where five trained nurses are in constant attendance. The proximity of the College to Boston permits frequent conference with other doctors, and early consultation in case of serious illness is assured. Hospitals in Boston and Newton are so accessible that immediate care can be given to any type of illness or accident. In case of serious illness, parents are notified by telephone or telegram. Seven days of infirmary care are provided without charge to the student.

Emphasis is laid on preventive medicine and on the maintenance of healthy

living conditions on the campus. A board of health, consisting of the college physicians, together with the Director of the Department of Hygiene and Physical Education, the President, and the Deans, considers matters affecting the health of students. Campus employees are examined by a college physician, and the doctors coöperate with the dietitian and purveyor in the selection of food.

THE PERSONNEL BUREAU is a central depository of the individual histories of the students as collected from the records of grades, interviews, personality ratings, psychological tests, health reports, and extra-curricular activities, and is maintained for furnishing material of value in educational and vocational advising. The Bureau is in active coöperation with other administrative offices by means of the Personnel Board. This is composed of the President of the College (Chairman), the Deans, the Recorder, the Resident Physician, the Health Officer, the Consultant, a member-at-large from the faculty, and the Director of the Personnel Bureau (Secretary). Meetings are held from time to time for the consideration of personnel questions and methods of procedure, to which other officers of the College concerned with the matter under discussion are invited.

The staff of the Personnel Bureau consists of a Director, an Appointment Secretary, two Associates, a Consultant from the Psychology department, and two assistants.

The Personnel Bureau, established by the Founders as the Teachers' Registry, includes also in its scope the placing of graduates in teaching and in business positions, the supplying of information about training courses, apprenticeships, and assistantships, and the work of the Committee on Vocational Information, which arranges lectures and discussions on occupations. Registration for placement is open to all who have taken courses in Wellesley College. Students are invited to register during their senior year. The Bureau maintains files, collects credentials, and is the source of information concerning the vocational equipment and experience of Wellesley women. The registration fee is \$2.00 for life membership, and no commission is charged for placement. The Bureau also registers undergraduates and alumnae for summer work, and has charge of undergraduate employment.

THE COLLEGE GOVERNMENT ASSOCIATION is responsible for the maintenance of efficient organization of the undergraduate community. It is directed largely by students, though it receives its charter from the Academic Council of the Faculty, which has representatives on its governing boards. Other student organizations foster a variety of interests: the Athletic Association; the Barnswallows (dramatic) Association; the Christian Association; the Forum, which is a federation of such organizations as the International Relations Club, the League for Industrial Democracy, The American Student Union, the League of Women Voters; the Cosmopolitan Club; the Poetry Club; and numerous departmental clubs. There are six societies which combine informal social events with extra-curricular study. Each society has a small house containing club-rooms and kitchen facilities. The membership in each group is limited to thirty juniors and seniors, and the alumnae members maintain an active interest.

EQUIPMENT  
ACADEMIC AND COMMUNITY BUILDINGS  
(Listed in order of construction)

**COLLEGE HALL**, the first academic building of Wellesley College, was the gift of the founders, Mr. and Mrs. Henry Fowle Durant. In 1875 it was finished and equipped under the close personal supervision of the founders. On March 17, 1914, all but one wing of this historic building was destroyed by fire. That wing, in constant use since 1914, was remodeled in 1936 and houses the department of Geology and Geography. It is located on the hill overlooking Lake Waban.

**MUSIC HALL AND BILLINGS HALL** are large brick buildings, devoted to the department of Music. Music Hall contains offices, studios, and practice rooms equipped with thirty-seven new pianos of standard makes, four victrolas and a Mason and Hamlin Ampico; also a large room, containing a two-manual pipe organ for the use of the organ pupils. Billings Hall, opened in 1904, contains the offices of the Professor of Music and the Assistant, the library, and a classroom for instruction in Musical Theory; also a concert room with a seating capacity of 330 people, containing a grand piano, a clavichord, a victrola, and the Grover organ—a three-manual organ, rebuilt and modernized by the Estey Organ Company.

The Music Library includes a collection of manuscripts, 3,400 scores and 2,100 reference books on musical subjects. The department owns 1,100 victrola records and 50 ampico rolls.

The department has at its disposal the assignment of eight tickets for the weekly concerts of the Boston Symphony Orchestra in Symphony Hall, Boston.

**THE FARNSWORTH ART BUILDING** was the gift of the late Isaac D. Farnsworth in 1889. It contains lecture rooms and exhibition galleries and is used by the department of Art for its library, study rooms, laboratories and studios.

Through the active interest of friends of the College, the Museum contains a small but representative selection of monuments from different periods and styles: Egyptian minor arts, including 16 scarabs and a seal from the Murch collection; the M. Day Kimball collection of classical sculpture; Graeco-Buddhist stucco sculpture from Kashmir; a recently excavated mosaic from Antioch; a few Italian primitives; a 16th century tapestry; the James J. Jarves collection of textiles and laces; a bronze by Kolbe; an early Corot; a late Renoir; a small painting by Francesco Furini; the Cumæan Sibyl by Elihu Vedder; two paintings by Frank Duveneck; and a portrait study by Whistler.

Further information may be found in the Art Museum Bulletin.

**THE CHAPEL** was presented in 1899 by Miss Elizabeth G. Houghton and Mr. Clement S. Houghton as a memorial to their father, Mr. William S. Houghton, a trustee of the College from 1880 to his death in 1894. Its windows include memorials to the Founder of the College and to various alumnae and members of the faculty. Behind the memorial tablet (by Daniel Chester French) in honor

of Alice Freeman Palmer are the urns holding her ashes and those of her husband, Professor George Herbert Palmer, trustee of Wellesley College from 1912 to 1933.

THE WHITIN OBSERVATORY is a one-story building of brick, faced with white marble, situated on a small hill on the college grounds and devoted entirely to the use of the department of Astronomy. THE OBSERVATORY HOUSE, the residence of the Director of the Observatory, is nearby. The Observatory, the House, and much of the astronomical equipment are gifts of the late Mrs. John C. Whitin.

MARY HEMENWAY HALL, on the western border of the campus, was erected in 1909 as headquarters of the department of Hygiene and Physical Education when the Boston Normal School of Gymnastics became a part of Wellesley College.

THE LIBRARY of the College, endowed by Eben Norton Horsford, now numbers over 184,000 bound volumes, including the departmental libraries. The books in the General Library building form a collection chosen primarily for the use of students and instructors in the college courses in Literature and Languages, History, Economics, Sociology, Philosophy, Education, Religious History, and certain of the sciences. The General Library is open on week days from 8:10 A.M. to 9:30 P.M., and on Sundays from 2:30 to 5:30 P.M. Students have direct access to the shelves. The Library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided. Special effort is made to train students in methods of research.

The Library subscribes for more than six hundred American and foreign periodicals, including daily newspapers representing different sections of the United States, besides representative British and Continental dailies.

The Library has also many special collections of great interest and value to the student doing graduate or other research work. Among the most valuable of these are the Plimpton Collection, established by Mr. George A. Plimpton in memory of his wife, Frances Parsons Plimpton, of the class of 1884, which comprises over a thousand volumes of Italian books and manuscripts chiefly of the Renaissance; the Ruskin Collection, the gift of Mr. Charles E. Goodspeed; and the Collection of Early and Rare Editions of English Poetry given for the most part by Professor George Herbert Palmer.

The Brooks Memorial Room, opened in 1921, provides comfortable and beautiful surroundings with carefully selected books for leisure hours of reading.

The following departmental libraries are located in the buildings of the respective departments: Art, Astronomy, Botany, Chemistry, Geology, Hygiene, Music, Physics, Psychology, and Zoölogy.

THE PAGE MEMORIAL and the WELLESLEY NURSERY SCHOOL on the college campus are small buildings devoted to the education of young children. They are available as laboratories for students in the department of Education.

FOUNDERS HALL, a building for lecture rooms and department offices pertaining to instruction in the liberal arts, was opened for use in 1919. The hall was built from the Restoration Fund, secured for the College through trustees, faculty, alumnae, and other friends, and replaces in some part College Hall, the

first and main building of the College. The building is dedicated as a memorial to the Founders of the College, Henry Fowle Durant and his wife, Pauline Adeline Durant.

**ALUMNAE HALL**, the gift of the alumnae for a recreation centre, contains an auditorium seating 1,570, a ball-room, a library, committee rooms for the use of alumnae and students, and full equipment for entertaining.

**SAGE HALL** was built to house the departments of Botany and Zoölogy and Physiology. The first unit for the department of Botany was erected in 1927, and the Zoölogy and Physiology unit in 1931. The principal donor was Mrs. Russell Sage.

**HETTY H. R. GREEN HALL**, the administration building, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices, class and seminar rooms, the faculty assembly hall, and offices of student organizations. The Galen L. Stone Tower, named for its donor, contains a carillon which was the gift of Mrs. Charlotte Nichols Greene.

**PENDLETON HALL** was opened in 1935. It was named at the request of the undergraduates in honor of Ellen Fitz Pendleton, President of the College from 1911 to 1936. This fire-proof building houses the departments of Chemistry, Physics, and Psychology.

#### LABORATORIES AND SCIENTIFIC COLLECTIONS

**ASTRONOMY.**—The Whitin Observatory contains two rooms surmounted by rotating domes, twenty-five feet and twelve and one-half feet in diameter respectively; a transit room; a well-lighted room for elementary laboratory work; and a room in which is kept the department library. In the larger dome room is mounted a twelve-inch Clark equatorial refracting telescope, which is provided with a filar micrometer, a polarizing photometer, and an attachment for photographing the moon. The smaller dome contains a six-inch Clark refractor, which is provided with an electric driving clock, a filar micrometer, a wedge photometer, and an Evershed protuberance spectroscope, and which may be used as a guiding telescope for a small photographic camera. Both domes are rotated by electric motors. In the transit room is mounted a Bamberg prismatic transit of three inches aperture. A four-inch telescope with objective by Browning is mounted in a south wall of the building, with the eye end inside and the optic axis parallel to the axis of the Earth; a plane mirror beneath the object-glass reflects into the latter the light of the object observed. An electrically driven heliostat, mounted in a separate small dome on the roof, reflects sunlight through a lens of 18 feet focal length into the basement, where, after an additional reflection, it is utilized in a horizontally mounted Hale spectrohelioscope. The Observatory is supplied with two Howard sidereal clocks, a Bond mean-time chronometer, and a chronograph, any of which may be connected electrically through a switch-board with keys near the various telescopes; a Berger surveyor's transit; a 60-mm. Zeiss tripod telescope; two calculating machines; a Gaertner comparator for measuring spectrograms; and a large collection of illustrative apparatus, lantern slides, and photographs. A flat portion of

the roof of the neighboring Sage Hall is fitted with illuminated tables for the use of astronomy students during naked-eye study of the sky.

**BOTANY.**—The laboratories of the department of Botany in Sage Hall are fully equipped for general and special work. Connecting with the building at three points is a range of modern greenhouses consisting of a large palm house and fourteen smaller houses. The greenhouses contribute to all the courses in the department, but are of special importance in connection with the work in general botany, plant culture, physiology, ecology, taxonomy, and genetics. Special laboratories, and constant-temperature dark-rooms and radiation-rooms, well equipped with biological, chemical, and physical apparatus, are used in conjunction with the greenhouses. The department has a wood-working and machine shop for repairing and making apparatus. The Susan M. Hallowell Memorial Library is exceptionally well supplied with reference works and current periodicals. The illustrative collections comprise an herbarium of some 85,000 sheets, a working museum of more than 5,000 specimens and models, and a large collection of charts, lantern slides, and microscopical mounts. The department has an "Outdoor Laboratory" of small gardens for the use of students in the beginning course, a Genetics field, and a Botanic Garden and Arboretum. The native flora about Wellesley is easily accessible, furnishing a convenient field for both the taxonomist and ecologist.

**CHEMISTRY.**—The department of Chemistry has in Pendleton Hall three lecture rooms with complete demonstration tables and apparatus for special experiments, a seminar room, and a library in memory of Professor Charlotte Fitch Roberts. Each course is provided with a laboratory designed and equipped for its special needs. There is a large dark room for optical instruments and smaller ones for photographic and spectrographic work. Rooms have been arranged for special organic experiments, for electrolytic work and for micro-combustions. General research rooms are available which are provided with equipment adaptable to various experimental problems. Throughout the building there are systems for hot and cold water, distilled water, gas, compressed air, vacuum, high-pressure steam, hydrogen sulfide, and both direct and alternating current, so that these services are available wherever desired.

**GEOLGY AND GEOGRAPHY.**—The building occupied by the department of Geology and Geography contains well-equipped lecture rooms and laboratories, a small library, and museum and case rooms for housing the department's large collections of demonstration materials.

The museum and laboratory material of the department includes a typical collection of dynamical and structural geology specimens, systematic mineralogical and petrographic collections, and a wide variety of fossils. The department has two noteworthy collections. The first is the Horace I. Johnson Mineral Collection, which consists of five thousand valuable and beautiful mineral specimens, including many precious metals and stones. This collection is the gift of the late Mr. John Merton, and was presented through the Class of 1915 by the courtesy of Miss M. Helen Merton. The second is the Reverend David F. Pierce Collection, which includes a complete and rare collection of building and ornamental stones and many precious and semi-precious minerals. This collection is

the gift of Professor Frederick E. Pierce of Yale, Miss Anna H. Pierce, and Miss Mary E. Pierce of the Class of 1898.

The maps of the department include many large scale wall maps, maps of the United States Coast and Geodetic Survey, and complete files of geologic folios and topographic maps of the United States Geologic Survey. In addition several thousand topographic maps and folios are arranged in collections for individual use in the laboratory. The department has an excellent assortment of lantern slides which illustrate many phases of geology and geography.

**HYGIENE AND PHYSICAL EDUCATION.**—The equipment of the department is designed for the application of modern science to the maintenance and promotion of health and for education through motor activity.

Mary Hemenway Hall includes a large well-lighted gymnasium with shower facilities, administrative offices, classrooms, and laboratories for anatomy, physiology, hygiene, anthropometry, corrective exercise, and research.

Unusual facilities for outdoor activities are provided as follows: one six-target archery range, six volley ball, four basket ball, and twenty tennis courts; one baseball diamond, two hockey and lacrosse fields, one 100-yard straight-away track and jumping pits; and a nine-hole golf course. Bridle paths are available for horseback riding. Close by, on Lake Waban, are two boathouses, with canoes, eight-oared shells, and motor boat for coaching and safety patrol. The Lake provides opportunity for swimming in the spring and fall terms, and for skating in the winter. The campus is well adapted to skiing, snowshoeing, and coasting.

The department library in Mary Hemenway Hall contains 4,900 volumes, a collection of valuable pamphlets, and regularly receives 59 periodicals dealing with matters related to hygiene and physical education.

The Recreation Building, containing the George Howe Davenport Swimming Pool, is under construction and will be ready for use in February, 1939. It is the gift of many donors. Two of them, Mr. and Mrs. Davenport, gave large sums. Students and alumnae gave amounts of all sizes in money and energy to increase the "Swimming Pool Fund" which accumulated for nearly thirty years.

The thoroughly modern swimming pool, seventy-five by thirty-five feet, is equipped with under-water lighting and is designed for instructional purposes as well as recreational. The building also contains squash courts and a recreation room for badminton and other floor games, and club rooms for use by graduate students in Hygiene and Physical Education as well as undergraduate groups. While the new building is in close proximity to Mary Hemenway Hall, it is independently equipped with dressing rooms and will be used as a separate unit for the department of Hygiene and Physical Education.

**MATHEMATICS.**—The department has a collection of 240 models, chiefly of thread, paper, plaster, or celluloid. The 50 Brill-Schilling models include ruled surfaces, skew curves on celluloid, and three kinematic models of cycloidal curves. There are several large thread models used with the lantern in the study of skew curves, and many simple models, some of which were made by members of the department and some by students. There is a fine transit for the use of classes in trigonometry, and two computing machines, used in the classes in statistics.

**PHYSICS.**—The department of Physics has, on the second floor of Pendleton Hall, large, well-lighted laboratories for general physics, optics, electricity, and meteorology; on the first floor, lecture and recitation rooms, with a large, central apparatus room, library, and offices. In the basement are well-equipped machine and wood shops, advanced laboratories, research rooms, photographic dark rooms, glass-blowing and chemical preparation rooms. Lecture tables and laboratories are fitted with gas, water, compressed air and vacuum systems. Six electrical distribution panels permit the use of direct and alternating currents of various voltages in all parts of the building.

The equipment is thoroughly modern. The lecture apparatus is sufficient to permit a wide range of experiments. Duplication of apparatus permits a close coördination between lectures and laboratory work in the elementary courses. The department is especially well equipped for advanced courses in the fields of optics, electricity, including high frequency oscillations, electronics, and atomic physics.

**PSYCHOLOGY.**—The laboratory in Pendleton Hall consists of a number of small rooms in which an observer and subject may work on elementary problems; several larger laboratories for advanced problems requiring more elaborate apparatus; specially designed rooms for studies in visual, auditory, and olfactory sensations; facilities for photography; a small but well-fitted workshop. There is also a room so equipped that it may be used, when funds permit, for animal experimentation. The money from the Sanford Fund is being used to purchase all apparatus necessary for a modern laboratory.

The library and seminar room is dedicated to the memory of Eleanor Acheson McCulloch Gamble, late professor of psychology.

**ZOOLOGY AND PHYSIOLOGY.**—The department of Zoölogy and Physiology occupies in Sage Hall lecture rooms, laboratories, research rooms, a library—a memorial to Caroline B. Thompson,—a museum, and a vivarium which includes mammal rooms and runways and a large aquarium room containing frog and turtle pools, tanks for salt and fresh water forms and for tropical fishes.

The museum material includes teaching collections of birds, mammals, reptiles, amphibians and fishes, and many fine anatomical and embryological models.

Invertebrates are represented by extensive collections of insects and shells and models of important types.

#### RESIDENCES

The college residences are grouped into several units on and off the campus. In all houses the rooms are provided with the necessary furniture, including rugs and desk lamps.

The Hazard Quadrangle consists of four houses having approximately 85 students in each: Beebe, Cazenove, Pomeroy, and Shafer Halls.

The Tower Court group receives its name from the largest of its three buildings (which accommodates 200) and includes, also, Claflin Hall (with 97 students) and Severance Hall (with 124).

Stone and Olive Davis Halls form one building, though each half is operated as an independent unit for 80 students.

Norumbega Hall is centrally located on the hill with Green, Founders, and Pendleton Halls, and the Farnsworth Art Building. It accommodates 50 students and has been used recently as one of the coöperative houses.

Munger Hall was built in 1935 as a coöperative house to accommodate 112 students.

Dower House and Homestead are campus residences each accommodating about 40 freshmen who take their meals at Olive Davis Hall.

Fiske House, located at the main entrance to the campus, is a freshman house for 28 students.

Five houses in the village—Eliot, Elms, Washington, Little, and Noanett—form a residence unit for approximately 200 freshmen.

Crofton House in the village is operated as a residence for 12 graduate students.

Horton, Shepard, and Hallowell Houses are club and apartment houses for members of the faculty. They are located in close proximity to the campus.

The President's House, Oakwoods (the home of the Dean of the College), Crawford (the home of the Dean of Residence), and Observatory House (the home of the Director of the Observatory), are on the campus. Each of the larger student residences contains several faculty apartments.

## DEGREES CONFERRED IN 1938

## MASTER OF ARTS

HANNAH WHEELER BALL, B.A., Macalester College, 1931. *English Literature.*  
 GENEVA MAE CARVER, B.A., MacMurray College for Women, 1937. *History and Political Science*  
 NAOMI COMENETZ, B.A., Cornell University, 1937. *Psychology.*  
 DOROTHY DART, B.A., Radcliffe College, 1932. *French.*  
 KATHERINE MARY DEERING, B.A., St. Lawrence University, 1937. *French.*  
 CATHERINE ANNE EPSTEIN, B.A., Wellesley College, 1935. *Economics and Sociology.*  
 HARRIET ANN FRIEDENBERG, B.A., Hunter College of the City of New York, 1937. *History.*  
 MARCELLA MAUREEN GILRAIN, B.A., Vassar College, 1936. *Botany.*  
 JEAN GLASSCOCK, B.A., Wellesley College, 1933. *English.*  
 MARJORIE ISABELLE GREENE, B.A., Wellesley College, 1935. *Education.*  
 MARY JANE GRISWOLD, B.A., Wellesley College, 1933. *English Literature.*  
 ROSEMARY HUDSON, B.A., University of Oklahoma, 1936. *Physics.*  
 STEPHANIE DOROTHEA LOWTHER, B.S., University of New Hampshire, 1936. *Zoölogy and Physiology.*  
 JANE ADDAMS MULL, B.A., Wellesley College, 1936. *Art.*  
 MADELINE PALMER, B.A., Wellesley College, 1935. *Botany.*  
 JANET SUZANNE ROSENTHAL, B.A., Wellesley College, 1932. *Art.*

## MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION

KATHERINE MAE DUNWOODY, B.S., Purdue University, 1936.  
 MARJORIE MAXINE EBERHARDT, B.A., Barnard College, 1936.  
 FRANCES CORINNE HADDOCK, B.S., University of Pittsburgh, 1935.  
 NAOMI LAURA LEYHE, B.S. in Physical Education, University of Illinois, 1935.  
 CHRISTINE TODD SCHWARTZ, B.S. in Physical Education, University of Illinois, 1936.  
 BARBARA ELIZABETH CAROLINE SMITH, B.A., Wellesley College, 1937.  
 NATALIE SMITH, B.A., Pembroke College in Brown University, 1935.  
 YA LAN TS'UI, B.A., Ginling College, 1929.  
 RUTH CAROLYN WIGGINS, B.A., Wellesley College, 1934.  
 SHIRLEY WINSBERG, B.S. in Education, University of Illinois, 1936.

## BACHELOR OF ARTS

Alice Abercrombie	Annette Dorothea Bose
Ruth Jane Affelder	Barbara Boynton
Marion Emaline Allen	Florence June Bradfield
Betty Anderson	Aima Ellen Brady
Margaret Hale Andrews	Margaret Scott Breen
Elisabeth Nichols Atanasoff	Carolyn Elizabeth Brehm
Alice Lee Atkinson	Judith Barbara Brooks
Margaret Blaylock Squires Bailey	Eleanor Preston Brown
Priscilla Esther Barlow	Louise Alden Brown
Phyllis Madeleine Barrett	Wilma Antoinette Buchman
Edith Miriam Barwood	Elizabeth Robinhold Burkey
Margaret Anderson Bass	Catherine Burns
Dorothy Darling Becker	Elizabeth Cadbury
Ruth Beecher	Mary Agnes Cameron
Ruth Harvey Beizer	Katherine Rankin Campbell
Claire Paula Berger	Ruth Benedict Campbell
Elizabeth Bezanson	Marjorie Todd Cannell
Martha Anne Birch	Jane Baar Celler
Margaret Eleanor Blake	Harriet Chamberlain
Emily Blau	Lydia Florence Chase
Helen Doris Blum	Ruth Beatrice Cherry
Leta Leigh Bonyngé	Margaret Anne Clippinger
Margaret Louise Borg	Sarah Frances Cole

MARGARET FARRELL CONLON  
 MARION LOUISE COOK  
 HELEN CRAWFORD  
 MARY MILICENT CURRAN  
 SARAH CORNELIA CURTIS  
 DOROTHY VIRGINIA DAVIS  
 EDITH BETTY DAVIS  
 FRANCES ANN DAVISON  
 BETH DAWLEY  
 CELENA WHITNEY DEAN  
 HELEN WENDLER DEANE  
 MARY ANN DECKER  
 JANET MCKAY DEVILBISS  
 MARGARET MARY DEVLIN  
 HARRIET PATRICIA DEVOY  
 FVELYN HARRIET DOANE  
 BETTY-JANE DOCKSTADER  
 ETHEL BENNETT DOE  
 WILMA RUTH DUBIN  
 KATHARINE LYON DUNLOP  
 MARJORIE HAYWARD DUTCH  
 VIRGINIA GRANT DWINNELL  
 PATRICIA EMILY DYAR  
 JOANNE EBELING  
 SHIRLEY LILLIAN EBERLIN  
 FLORENCE SMITH EBY  
 BARBARA JEANNE ECKHART  
 MARY EVERETT  
 PRISCILLA FALL  
 MAUDE AGNES FANNIN  
 BARBARA LANE FELLOWS  
 SARAH EMILY FENN  
 MARYBELLE FINGER  
 LOUISE FISHER  
 JESSIE ANGELYN FITZGERALD  
 ELIZABETH MORSE FLANDERS  
 HARRIET MOYER FLEISHER  
 EDAR VON LENERKE FLEMING  
 MARY LAWRENCE FLETCHER  
 KATHERINE HILANDS FORSYTH  
 RUTH CAROLYN FRANKEL  
 GRETCHEN BATES FRANZ  
 CHARLOTTE JESSIE FRASER  
 KATHERINE EUNICE FRASER  
 MARY ELLEN FREEMAN  
 BARBARA FROST  
 MARY PATTON GANOE  
 DOROTHY GARBOSE  
 BARBARA JANE GARCELON  
 DOROTHY TODI GARDNER  
 LUCY GARFIELD  
 DORIS HELEN GASTEIGER  
 MARGARET SIMMONS GATES  
 LAURA ADRIENNE GAUVREAU  
 MARY ELIZABETH GEHRING  
 HELEN LOUISE GERHARD  
 DOROTHY RUTH GILBERT  
 MARY JANE GILKEY  
 JOCELYN RUTH GILL  
 JEANETTE MURIEL GILLERSIAN  
 RAE GILMAN  
 YVETTE DOROTHY GITTLESON  
 LUCILLE GOODKIND  
 PRISCILLA GOODWIN  
 NATALIE LEWIS GORDON  
 FRANCES OBEY GRAHAM  
 FRANCES LANE GREEN  
 WILHELMINA BERNICE GREENSPAN  
 BARBARA GREENWOOD  
 MURIEL JANETTE GREER  
 JUNE LOUISE GRENAKER

ELIZABETH GRACE GRIGGS  
 JANE GRISWOLD  
 MARY ROCKWELL GUERNSEY  
 MARY JANE HAMILTON  
 HARRIET HARRISON  
 CATHERINE MOULTON HASCALL  
 ANNE MERRIDITH HATHAWAY  
 CONSTANCE VIRGINIA HAWKINS  
 HELEN LOUISE HAYDEN  
 JANE LEONA HAYDEN  
 HARRIET JOYCE HAZEN  
 GRETCHEN HEALD  
 DOROTHY JEAN HEATH  
 ELAINE JESSIE HELLER  
 ELIZABETH HILL  
 CLARA JOHN HILLENBRAND  
 ELIZABETH HILLSON  
 ERNESTINE ELIZABETH HOEN  
 RUTH HOFFMAN  
 ELIZABETH CHAPIN HOLLY  
 MARGARET VIRGINIA HOLMES  
 MARY COOLIDGE HOUGHTON  
 ESTHER CAROLINE HOWARD  
 HERMINA BARBARA HUGHES  
 ELIZABETH ANN HULL  
 JANE McFARLAND HUTCHINS  
 MARY ELIZABETH HUTTON  
 EDITH THERESA IGLAUER  
 RUBY EMILY ISRAEL  
 ELEANOR FRANCES JACKSON  
 FRANCES TURNER JACKSON  
 LILLIAN GARLAND JAMESON  
 JEAN JEFFERSON  
 JEAN JENKINS  
 LUCILLE MARGARET JOHNSON  
 ANITA SIMMS JONES  
 MARY HELEN JONES  
 SHIRLEY ROBERTS JONES  
 ALBERTA KEANE  
 JEAN ELSO  
 MARGARET KENERSON  
 BARBARA KIBLER  
 LEORA MARTHA KIDD  
 KATHLEEN PATRICIA KILEY  
 ELIZABETH ANTOINETTE KINEKE  
 RUTH LEAH KLFIN  
 MARGARET NOYES KLEINERT  
 JOYCE KNOEDLER  
 JANE BELLA KOHN  
 JANE KORNBLITH  
 ROSE ELIZABETH KRAMER  
 BERNICE JANE KRAUS  
 ADRIENNE LANDE  
 JEANNE HOPE LASSER  
 ADELE LEHLBACH  
 MARJORIE TILLIS LEICHNER  
 MARIAN KATHARINE LEIGHTON  
 ELOISE ADÈLE LEJEUNE  
 JEAN KEMP LESLIE  
 LEONA HARRIETTE LEVENSON  
 RUTH NAOMI LEVINE  
 SELMA LEONORE LEVINE  
 EDITH MARK LEVY  
 HILDEGARDE LEWIS  
 LOIS KLEIN LINN  
 ELIZABETH ANNE LOBECK  
 VIRGINIA LOCKE  
 VIRGINIA LOVE  
 FRANCES WOODS LOVEJOY  
 DORIS DIANA LYON  
 MARGARET MARY McCROSSAN

LOIS ELIOT MCKEKNIE  
 LOUISE MCKINNEY  
 SARAH ELIZABETH McLAUGHLIN  
 EMILIE ELIZABETH McNALLY  
 FRANCES ANNE MacROBBIE  
 MIRIAM LYDIA MELISSA MacWILLIAMS  
 RUTH CORRIGAN MAHONEY  
 GRACE ADELE MANDEVILLE  
 JULIA WARD MARTIN  
 LOUISE MATTHEWS  
 MARY ELIZABETH MATTHEWS  
 LUCILE LORRAINE MEACHUM  
 DOROTHY FVEILYN MELVIN  
 HELEN JEAN MEYERCORD  
 MARGARET EMILIE MILLER  
 MARGARET WOODSIDE MILLER  
 MARY LOUISE MILLER  
 FRANCES FORT MILTON  
 JANE PHYLLIS MITTAU  
 MARJORY ADA MORGAN  
 HILDA CARVER MORRISON  
 JANE PRINGLE MUTTER  
 CAROLYN MUZZY  
 HELEN VIRGINIA NASMAN  
 FRANCES ELLEN NEARING  
 ELMA ANN NEEDLES  
 RUTH ELINOR NELSON  
 ELEANOR NORRIS  
 MARY LYNN OELLGAARD  
 ELIZABETH MAE OLIVER  
 JANE ELIZABETH OSMER  
 LUCIA PAGNIOLLO  
 CATHERINE VAN WAGENEN PARKER  
 ALICE CARYL PASTERNAK  
 CHARLOTTE PAUL  
 ANNE ELICOTT PEARCE  
 ELEANOR CHRISTINE PEARSON  
 LEONORE PERLSTEIN  
 BETTY ARNOLD PFAELZER  
 WINNIE RAWSON PIERCE  
 MARGARET DARLING PLATNER  
 EDITH CORNELL PRATT  
 HELEN PRENTICE  
 CAROLYN FRANCES PROCTOR  
 SARAH ELLEN PURVIS  
 ELIZABETH ANNE REARDON  
 NARCISSA PILLOW REEDER  
 PATRICIA BRADFORD REY  
 DOROTHY ESTELLE RICH  
 ELEANOR JANE RIORDAN  
 PAULINE RITCHIE  
 HENRIETTA EVELYN ROBINSON  
 JANET PENROSE ROBINSON  
 MARY-JANE ROBINSON  
 ELIZABETH MARION ROE-CLOUD  
 LOIS KNIGHT ROGERS  
 MARION SHALEY ROSENBAUM  
 MILDRED ANN ROSENBERG  
 BERNICE DIANA ROSENTHAL  
 BERNICE LEVY RUDNICK  
 MARION IDA SALTA  
 MIRIAM ESTELLE SAPIRO  
 BETSEY HEATH SCHADT  
 MARJORIE META SCHECTER  
 SALLY SCOTT  
 MARION ADELAIDE SEDER

GRACE FLORENCE SEIDMAN  
 BARBARA SEWALL  
 JEAN MILDRED SHEPPARD  
 CYRIL SIEGEL  
 MOIRA RUEL SIMBOLI  
 FRANCES SIMPSON SKINNER  
 MARY ANDREWS SMITH  
 RITA GRACE SMITH  
 SYBIL SMITH  
 MARTHA FOWLER SNEATH  
 VIRGINIA ISABEL SPANGLER  
 MAY SPENCER  
 BARBARA STEVENSON  
 CAROLINE BACON STRATER  
 ELEANOR CAROLINE STRICKERT  
 RILDA MARGARET STUART  
 MIRIAM NICHOLS SWAFFIELD  
 CLAIRE SWEANY  
 HILDA SWETT  
 MARGERY FITZ STEPHEN TAYLOR  
 MARY BRUCE TAYLOR  
 LAURA JOSEPHINE THICKENS  
 HANNAH THOMAS  
 ELIZABETH THOROGOOD  
 ELEANOR THRESHER  
 ANNE BEVERLY TITUS  
 JANE TRACY  
 ALICE HARRINGTON TREMAIN  
 ELIZABETH TURNER  
 REBECCA TURNER  
 MARY ELIZABETH WALES  
 HELEN GEDDES WALKER  
 JEANNETTE CHRISTINE WALLACE  
 EVA BRYNHILL WALLEN  
 DORA ELIZABETH WALTON  
 ESTHER MARGUERITE WARD  
 EMILY JEANNE WASHBURN  
 POLLY MEAD WATERS  
 JESSIE JANET WATT  
 BEATRICE ADIE WEAVER  
 MARTHA BOYD WEBB  
 CLAIRE IRENE WEIL  
 MARY EUNICE WELLES  
 BARBARA KAULL WENTWORTH  
 VIRGINIA ANN WEST  
 ELIZABETH BROWNELL WHEELER  
 ELIZABETH SARAH WHEELER  
 GENE STILLWELL WHITE  
 NANCY BOSWORTH WHITON  
 EVELYN ELIZABETH WICOFF  
 HELEN WIGGLESWORTH  
 GWENDOLYN ELDREDGE WILDER  
 HELEN SEYMOUR WILEY  
 RACHEL WILLIAMS  
 CHARLOTTE ANNE WINCHELL  
 BARBARA CARMONY WITMAN  
 LOIS ANN WOLBACH  
 JACQUELINE WOLF  
 DZOE-TS WOO  
 JANET ELSIE WOODSUM  
 ELIZABETH TARLTON WRIGHT  
 ELIZABETH DICKERMAN WURST  
 RUTH WOOD YERRALL  
 MARY BELLE YOUNG  
 JANET RUTH ZIEGLER

CERTIFICATE OF THE DEPARTMENT OF HYGIENE  
AND PHYSICAL EDUCATION

KATHERINE MAE DUNWOODY, B.S., Purdue University, 1936.  
 MARJORIE MAXINE EBERHARDT, B.A., Barnard College, 1936.  
 FRANCES CORINNE HADDOCK, B.S., University of Pittsburgh, 1935.  
 NAOMI LAURA LEYHE, B.S. in Physical Education, University of Illinois, 1935.  
 AZÉLIE WINIFRED PHILLIPS, B.A., Wellesley College, 1934.  
 CHRISTINE TODD SCHWARTZ, B.S. in Physical Education, University of Illinois, 1936.  
 BARBARA ELIZABETH CAROLINE SMITH, B.A., Wellesley College, 1937.  
 NATALIE SMITH, B.A., Pembroke College in Brown University, 1935.  
 YA LAN TS'UI, B.A., Ginling College, 1929.  
 SHIRLEY WINSBERG, B.S. in Education, University of Illinois, 1936.

## HONORS IN A SPECIAL FIELD

BETTY ANDERSON

*Railroad Holding Companies: The Van Sweringen Empire*

BARBARA JEANNE ECKHART

*Mazzini Garibaldi e Cavour visti da Alfredo Oriani*

CHARLOTTE JESSIE FRASER

*Castilla y la "Generación de '98"*

DORIS HELEN GASTEIGER

*International Monetary Coöperation, 1918-1938*

LUCILE MARGARET JOHNSON

*L'évolution des idées religieuses de Victor Hugo*

ELOÏSE ADÈLE LEJEUNE

*El Cid Conquistador de Valencia al través de la literatura dramática española*

GRACE ADELE MANDEVILLE

*Topics in Elliptic Functions*

ELIZABETH MARION ROE-CLOUD

*Indian Land Policy and its Reconstruction in the United States with Special Reference to the Kickapoo Reservation*

LOIS KNIGHT ROGERS

*An Optical Study of Certain Di-phenyls*

CLAIRE IRENE WEIL

*Economic Aspects of the Scrap Iron Industry*

## PRIZES

KATHARINE COMAN MEMORIAL PRIZE, for Economic and Social History

SELMA LEONORE LEVINE

DAVENPORT PRIZE, for excellence in Speech

JACQUELINE WOLF

## FELLOWSHIPS AND SCHOLARSHIPS

MARGARET HASTINGS JACKSON PRIZE IN ITALIAN  
MARTHA FOWLER SNEATH

JACQUELINE AWARD, for excellence in English Composition  
PAULINE RITCHIE

MARY WHITE PETERSON PRIZE, for excellence in Chemistry  
SARAH ELLEN PURVIS

MARY WHITE PETERSON PRIZE, for excellence in Zoölogy  
ELIZABETH ANNE LOBECK

LEWIS ATTERTBURY STIMSON PRIZE IN MATHEMATICS  
EVELYN ELIZABETH WICOFF

WOODROW WILSON PRIZE IN MODERN POLITICS  
EDITH THERESA IGLAUSER

## FELLOWSHIPS AND SCHOLARSHIPS

## ANNE LOUISE BARRETT FELLOWSHIP

Awarded for the year 1938-39 to Barbara Goldsmith Trask, B.A., 1932, M.A., 1936, Wellesley College; graduate study with Nadia Boulanger at the École Normale de Musique in Paris.

Subject: Music

## ALICE FREEMAN PALMER FELLOWSHIP

Awarded for the year 1938-39 to Barbara Dewing Blanchard, A.B., 1933, Ph.D., 1938, University of California.

Subject: Zoölogy

## FANNY BULLOCK WORKMAN SCHOLARSHIP

Awarded for the year 1938-39 to Ruth Eleanor Cortell, B.A., Wellesley College, 1935; candidate for the degree of Ph.D. at the University of Chicago.

Subject: Physiology

## HORTON-HALLOWELL FELLOWSHIP

In the Gift of the Alumnae Association

Awarded for the year 1938-39 to Marjorie Gordon Smith, B.A., Wellesley College, 1936; M.A., Fletcher School of Law and Diplomacy, 1937; candidate for the degree of Ph.D. at Radcliffe College.

Subject: History

## SUSANNA WHITNEY HAWKES TEACHING FELLOWSHIP

Awarded for the year 1938-39 to Olga Victoria Edmond, B.A., Wellesley College, 1936.

GRADUATE SCHOLARSHIPS AWARDED TO MEMBERS OF THE  
CLASS OF 1938

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EDITH CORNELL PRATT

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Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of two and one-half years' work, to juniors on the basis of one and one-half years' work. The standard in each case is absolute, not competitive.

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ALICE CARYL PASTERNAK  
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## SUMMARY OF STUDENTS

Resident candidates for the M.A. degree	36
Resident candidates for the M.S. degree in H. & P. E.	17
Resident candidates for the Certificate in H. & P. E.	18
 Candidates for the B.A. degree:	
Seniors	254
Juniors	369
Sophomores	398
Freshmen	434
Unclassified	2
	— 1,457
Non-candidates for degrees	15
 Duplicates	1,543
	17
 Total registration November, 1938	1,526
Juniors in France	5
 United States:	
Alabama	2
Arkansas	2
California	21
Colorado	9
Connecticut	95
Delaware	5
District of Columbia	16
Florida	6
Georgia	1
Idaho	2
Illinois	72
Indiana	17
Iowa	6
Kansas	4
Kentucky	11
Louisiana	3
Maine	24
Maryland	19
Massachusetts	292
Michigan	33
Minnesota	10
Missouri	45
Montana	1
Nebraska	6
New Hampshire	20
New Jersey	144
New York	296
North Carolina	4
North Dakota	1
Ohio	81
Oklahoma	8
Oregon	1
Pennsylvania	122
Rhode Island	27
South Carolina	2
Tennessee	10
Texas	13
Utah	1
Vermont	11
Virginia	18
Washington	6
West Virginia	5
Wisconsin	16
Wyoming	4
Hawaii	2
Philippine Islands	2
Porto Rico	2
 Other Countries:	
Austria	1
Canada	5
China	10
Cuba	1
Dominican Republic	1
England	1
Germany	1
Guatemala	1
Holland	1
Hungary	1
Norway	1
Sweden	1
Syria	1
Turkey	1
West Indies	1

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GOHEEN, JOHN, *Instructor in Philosophy*  
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